

# AMERICAN NURSERYMAN

*The Nurseryman's Forte: To Make America More Beautiful and Fruitful*

APRIL 1, 1959

Serial Dept.

APR 1 1959



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# AMERICAN NURSERYMAN

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*The Nurseryman's Forte: To Make America More Beautiful and Fruitful*

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Forms for the May 1 issue will close Friday, April 10.

Forms for the May 15 issue will close Friday, April 24. Mail copy to arrive at Chicago by these dates—no later!



## *There's more to these roses than meets the eye. . .*

Very soon our fertile Hemet Valley will be covered in a carpet of dazzling color. As bloom time nears, we like to pause and consider: What goes into this business of growing roses commercially?

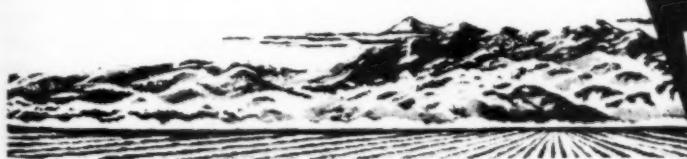
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# AMERICAN NURSERYMAN

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## Editorial

### WINTER INJURY

Some time must elapse before accurate knowledge will be obtained as to the injury done to nursery stock in the fields during the past winter in the sections of the country where abnormal snowfall, covering the ground for a long period, and the unusual extent of below-zero weather, freezing the ground below normal levels, have been experienced. Ice and sleet, high winds and scattered tornadoes have taken toll in some localities.

The injury to yews and some other evergreens is already apparent. Evidences of burn are extensive in some areas. Some of it may be removed by a slight pruning, but in other cases it is so severe that plants will require at least another season to present a salable appearance. Where the freezing weather was unusually severe, plants in unfavorably wet areas may be found to have suffered to a greater extent.

If the damage is no more, it will reduce the amount of salable stock, particularly in yews, in some nurseries. This is the more unfortunate since the yew has become so largely produced as a favorite for residential plantings. The setback, like that in the midwest almost a decade ago, may result in a return to the larger propagation and production of the old reliable Pfitzer juniper. Staked specimens of this plant, in particular, are good substitutes for moderate-size upright yews and in time will prove their value in appearance and hardiness as well worth the extra production cost, though retail nurserymen and homeowners may be reluctant to pay it at the outset.

There will be numerous demands from homeowners on advice as to pruning or replacing damaged evergreens, and study of the individual plants is necessary for accurate determination. No doubt, rosebushes will suffer from the excessive cold in gardens where covering with soil

in autumn was not done thoroughly. There should be good demand for container-grown plants for late replacements. It is to be hoped there will be a long spring planting season, to give opportunity for supplying stock for replacing garden plants that are found lacking in vitality to give satisfaction in the coming year.

### STATE ACTIVITIES

Among the organizations which have recently undertaken to keep their readers informed of activities by a regular publication, the Wisconsin Nurserymen's Association issues a bulletin of three sheets mimeographed on two sides, termed the *Needler*. A recent issue, besides enclosing a reprint of the midwinter convention report in the American Nurseryman for the benefit of members who were not present, presents detailed accounts of the activities of association committees and other groups with regard to problems which have arisen with a county park commission and the state forestry department. It is obvious from the accounts that just the appearance of the association representatives before these two bodies was sufficient to bring their policies more into line with the nurserymen's thinking about them. Such an association publication is useful in keeping before the members the activities of the organization so that they will feel it worth while to support and even to participate in the good work.

### SERVICES AND TAXES

Citizens of the state of Washington have set an example that might well be followed in other parts of the country by pledging their state officials that they will ask for no additional services if the legislature will impose no additional taxes. President Eisenhower has changed his formerly announced attitude that the American people are entitled to the services which they ask for and will pay for and he now seeks by economy in federal spending to achieve a balanced budget. He and other citizens of the nation see in the threat of inflation a problem which faces this country in its own national as well as international affairs.

Governments, local, state and national have found the prosperous era one in which it is so easy to impose taxes that everyone is in a spending mood. The attitude of legislators

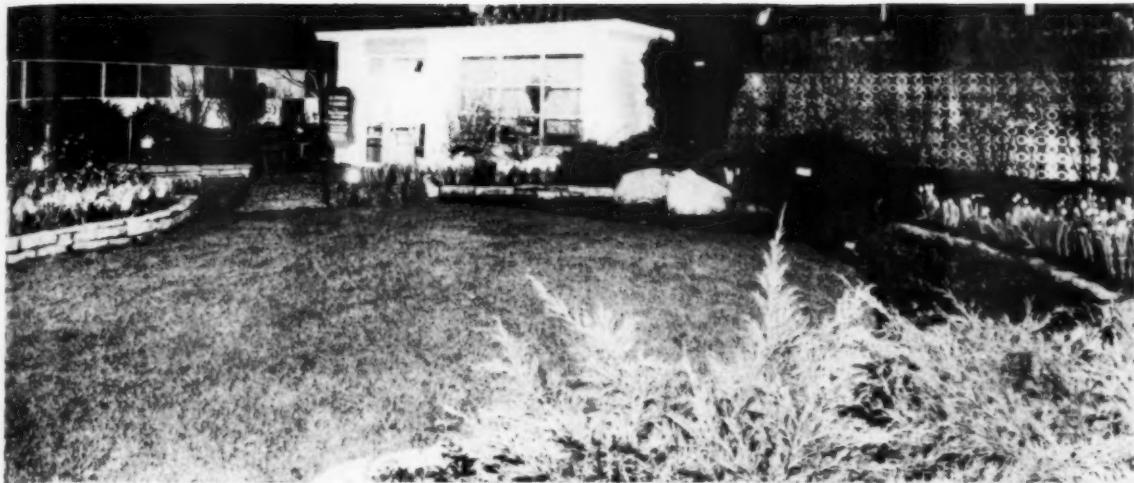
has been reflected in corporation policies and in the personal habits of employees. Thinking persons see in the accumulated waste of such prodigality a danger not only to the country's economy, but also to the American way of life.

### ROSE SOCIETY BIRTHDAY

By the calendar of some of its adherents, the American Rose Society celebrated its 60th birthday March 13. But its founding dates five years farther back, for in 1894 a group of commercial rose growers at the convention of the Society of American Florists decided to form the new society, paid dues for five years and then recessed. Like other new organizations in those days, progress was made slowly. In its early years the society was formed by and for the commercial rose growers, who were the greenhouse forcers of cut roses, as most rose plants for gardens were then imported from Europe.

As the years passed, the situation changed, and a new horticultural industry grew up in this country, that of producing millions of rosebushes for planting in home gardens. Amateur rosarians were welcomed into the society, but the commercial growers supported its functions until a quarter century ago. Through the missionary work of such men as J. Horace McFarland and Robert Pyle, supported by the commercial interests, the society was turned over to the amateurs. They were elected to office and have come to outnumber the commercial members so far that no longer is there the distinction in membership of earlier years. Now the membership totals over 17,000 members.

Part of this growth, of course, is due to the increasing popularity of the rose and the widening of garden interest in this country. But the travels and lectures of Robert Pyle, as of others, were a stimulant. The publications fostered by the late Dr. McFarland, the *Rose Quarterly*, the *American Rose* magazine and the *American Rose Annual*, the result of his personal effort for many years, also deserve much credit. An example before the American Rose Society was always that of the comparable group in Great Britain, now numbering over 25,000. The great progress of the American Rose Society in little more than a half century should be an inspiration for other organizations in horticulture.



Framing of an office reception room and industrial site with a planting for year-round effect, winner of a gold medal for the Illinois State Nurserymen's Association at the Chicago flower show.

## Chicago World Flower Show

### Illinois State Nurserymen's Association Wins Top Honors with Three Exhibits

Chicagoland's great host of flower lovers and gardening enthusiasts were given their first major flower show in 12 years March 14 to 22 at the International Amphitheater, Chicago. Winter-weary midwesterners found the event an excellent stimulus for their coming season's activities, discovering in the various feature gardens new ideas toward which to direct their energies and modern horticultural materials and techniques to assure them greater satisfactions than ever before. Continuing cold weather, even snow in much of the Metropolitan area, gave the spectacle extra appeal on the opening days.

At the opening ceremony March 14, R. Milton Carleton, president of the Chicago Horticultural Society, cut a rope of flowers to admit the public. A guest of honor for the event was Mayor Richard J. Daley.

#### Sponsors of Show

Jointly sponsoring the Chicago show were the Chicago Horticultural Society, the Illinois State Nurserymen's Association, the Allied Florists' Association of Illinois, the Central Western Zone of the Garden Club of America, the Men's Garden Clubs of America, the Chicago Council of Foreign Relations, Nationally Accredited Flower Show Judges of America, Inc., and the woman's board of the Chicago Horticultural Society. Many specialized plant societies and individual garden

clubs took part with educational displays and information booths.

#### Nurserymen Assist

Participation by members of the Illinois State Nurserymen's Association contributed in great measure to the successful staging of the show. Plantings by individuals and by the group as a whole earned several medal awards. Nurserymen's skill and materials were also prominent in planting features sponsored by nontrade organizations. Weather problems undoubtedly handicapped some efforts that had been planned; the effects of a hard winter were

noted on some stock, and there was uneven success in obtaining well-bloomed forced plants.

Scene of the national flower and garden show of the Society of American Florists in 1947, the International Amphitheater provides a mammoth exhibition site. The main arena, which has balcony seating surrounding it, has a floor space of 50,000 square feet. This area was given to feature plantings in a unified plan by the show designer, Harold O. Klopp, Palatine, Ill., and his associate, Don Pearson. On either side of the arena, huge halls held smaller feature gardens, the displays



Planting which won the Bulkley gold medal for the Illinois State Nurserymen's Association at the Chicago world flower show suggested a nursery sales yard and was designed to stimulate the public's appreciation of the labor and time involved in growing trees and shrubs of quality.



Setting for Garden Living in June Suggested at the Chicago Flower Show by the Charles Klehm & Son Nursery

made by garden clubs, the numerous entries in flower arrangement classes and trade and research exhibits.

A path that roughly formed a figure 8 circled two groups of gardens in the center of the main arena and gave visitors equally good views of the plantings about the sides. Providing a 50-foot backdrop for the entire arena scene was a southern hillside effect at the east end of the main section, featuring azaleas and camellias in full bloom, interspersed with flowering crab apples and plum, in the midst of which a waterfall cascaded. Spring-flowering bulbs and other plants formed the base planting. This display was arranged and

executed under the supervision of William Blaesing, chief horticulturist of the Chicago park district. The Chicago Horticultural Society's Charles L. Hutchinson gold medal award went to this colorful feature that had some excellently bloomed specimens.

#### Industrial Planting

Immediately facing the main entrance was a planting designated "The Approach to Business," suggesting the current trend toward landscaping commercial properties. This site, sponsored by the Illinois State Nurserymen's Association and planned by the American Associa-

tion of Landscape Architects, with Harold Klopp consultant, received a gold medal. A simply framed office reception room in the background at the left side was flanked by a terrace planting containing azaleas in raised beds and a flowering red-bud tree at one side and by yews and pines on the other. A shrub and evergreen border, with viburnum, quinces and lilacs in flower and strategically placed crab apple trees and star magnolias in bloom, extended across the back and around the righthand end of the area. Among the shrubs the ground was dotted with clumps of myrtle, cro-

[Continued on page 141]

## Cleveland Flower Show

The Cleveland home and flower show, held February 28 to March 8 in the Cleveland Public Auditorium, Cleveland, O., was designed around an "International" theme in keeping with the opening this year of the St. Lawrence seaway, which will open the port of Cleveland to foreign ships.

Henry Pree, landscape architect, Cleveland, designed the displays with the home gardener in mind, making them readily adaptable to city and suburban homesites. Executed by 14 leading growers and nurserymen of northern Ohio, the competitive gardens were divided into three classes, large, medium and small.

Fred Schneider & Sons Co., Rocky River, won first prize in the large gardens class with their "Garden in British Columbia," and second prize went to Kurt O. Laubinger & Sons, Inc., Northfield, for its display of an "Old German Garden." Honorable

mention in the large gardens category was given to Stoney Acre Gardens, Cleveland, for a Swedish garden, and to Hirt's Greenhouses, Strongsville. The latter firm developed the theme "Ground Covers the World Around" with spreading junipers, cotoneasters, leucothoes, heather, Baltic ivy, euonymuses, hardy candytuft, myrtles, pachysandras and sedums. The planting was edged with santolinas and accented with coral-bells, azaleas and weeping willows.

The first prize in the medium garden section was won by C. R. Perkins & Sons, Westlake, with a "Modern Japanese Garden." Second prize was awarded to Hi-Way Nurseries, Westlake, for their exhibit, "Modern Begonias in California," which featured these flowers in a vivid garden. C. Merkel Sons Co., Mentor, won third prize in this category with a "Mexican Foliage Garden."

Receiving honorable mention in

the medium gardens classification were Lieuhaven Gardens and Sunbeam Farm, both of Westlake, and Gali Florists & Greenhouses, Cleveland. Lieuhaven Gardens used salmon geraniums edged with silvery-gray santolinas against a background of Japanese andromedas and mountain laurel to exemplify "Informal Simplicity." Sunbeam Farm presented "An English Primrose Path," and Gali Florists & Greenhouses executed "A Garden on the Riviera."

#### Small Garden Section

The "Colonial Williamsburg Garden" designed by Parma Schlegel Greenhouse, Parma, was awarded first prize in the small garden section, the second prize going to Jack Ellacott, Cleveland, for his "Old Dutch Garden."

Also displayed at the show were two noncompetitive gardens, "A Korean Garden" and a "Brazilian Orchid Garden," by Delbert Smith, Uniontown, and Neill Greenhouses, Inc., Gates Mills, respectively. Numerous flower arrangements exhibited by retail florists also carried out the "International" theme.

# New Fashions, Long Island Show Theme

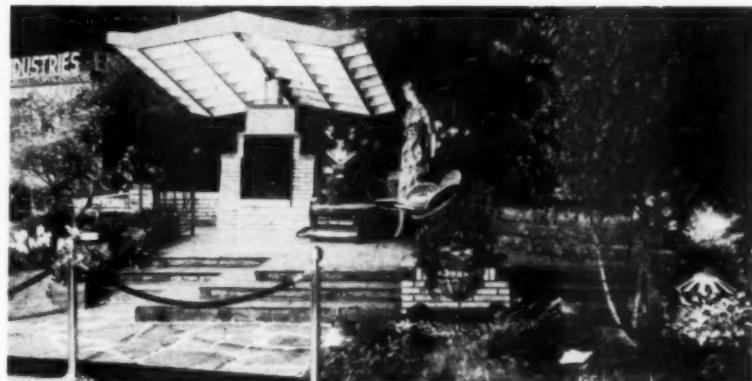
By Donald Griffiths, Jr.

The theme "New Fashions in Gardens" dominated in the Island Garden Arena, West Hempstead, L. I., N. Y., February 21 to March 1, as the Long Island Nurserymen's Association presented its 13th annual spring garden show. As interest in outdoor living is increasing, so is interest in this annual display of color increasing. Attendance was estimated at approximately 35,000.

All of the men involved in the organization, planning and execution of this successful show are specialists in the nursery industry on Long Island but they are fast becoming professionals in show presentation. Mark Eaton, Glen Head, one of the members of the Long Island Nurserymen's Association, did an excellent job as show manager. The floor plan of the show was designed by Eugene Mouquin, Glen Head, and all of the sod used was Merion bluegrass donated by Louis DeLea, East Northport.

In addition to Mark Eaton, the show committee consisted of Hewlett Lewis, Lewis & Valentine, Greenvale, L. I.; Charles Mouquin, Eugene H. Mouquin, Inc., and John Kean, Levittown, L. I. Lighting arrangements were made through the courtesy of Long Island Lighting Co. Hyson Associates, Glen Head, L. I., supplied the fertilizer for the plant forcing.

The following organizations forced the plants for all exhibitors: Agricultural and Technical Institute, planting fields campus at Oyster Bay, L. I.; Raynor's Nursery, Huntington, L. I.; Hicks' Nurseries, Inc., West-



This unusual Japanese garden designed by Alley Pond Nursery, Bayside, L. I., N. Y., was voted best in show in the popular ballot taken at the 13th annual Long Island garden show at Hempstead.

bury; Eugene H. Mouquin, Glen Head, L. I., and Triangle Nursery, Glen Head, L. I.

## Manikins in Exhibits

The theme for this year's show was unusual, as it was carried through by manikins in each garden supplied by leading Long Island and New York city stores. The clothes displayed tied in with the atmosphere of the individual gardens and received much favorable comment, especially from the women in attendance.

There was no judging by professionals, nor was there any class arrangement, although the gardens were of various sizes. The plans were to present each exhibitor with a large framed photo of his garden in place of cups and platters. There

was, however, a public ballot to determine the most beautiful and popular garden. This honor went to Alley Pond Nursery, Bayside, L. I., with second place going to Landscape Associates, Brookville, L. I. There were 24 garden sponsors, in addition to the 33 commercial exhibitors, who were in friendly competition for the honor.

Another addition to this ever-growing show was the display of flower arrangements sponsored by the Long Island Horticultural Society. To top off the cooperative spirit, a 60-foot birch tree was located in the center of the arena, where it commanded much attention and comment. Another feature was the underground pop-up sprinkler system, illuminated by color lighting, installed under the stands by Webb Felix, Central Islip.

Alley Pond Nursery had a Japanese theme complete with a new idea of pergolas and a different patio surfacing for the Long Island area. The pergola was colorful and eye-catching, as it covered a brick barbecue pit and a patio paved with polished Italian tile. A small fountain was the source of water for a pebble-bottomed stream that had molded, concrete ovals placed as stepping stones. The plant materials included cotoneasters, *Ilex bullata*, *Juniperus* *hertzi*, azalea varieties, rhododendron varieties, hyacinths and cut-leaved Japanese maples.

## Italian Garden

Landscape Associates exhibited a garden with an Italian theme. They too had a patio paved with tile im-

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Landscape Associates, Inc., and Dalsimer, Inc., Brookville, L. I., N. Y., used an Italian treatment for their exhibit at the Long Island show, which placed second in the popular voting.

# New Hampshire Meeting Hears Weed Control Talk

By Lawrence Dougherty

A talk on weed control; separate group meetings for florists, box plant growers and nurserymen, and the election of officers were the highlights of the annual meeting of the New Hampshire Plant Growers' Association, which was held February 21 in Putnam Hall at the University of New Hampshire, Durham.

Re-elected to lead the group as president was John Leahy, Jr., Meader's, Dover, who will represent the florists in the association. Also re-elected were Vice-president J. Raymond Hepler, Billy Hepler Seed Co., Durham, representing the seedsmen, and Secretary Lawrence Dougherty, University of New Hampshire. The new vice-presidents are Richard Perry, Dover, representing box plant growers, and Charles Still, Manchester, representing nurserymen. Chosen as treasurer was Paul Kimball, Exeter.

In opening the meeting, President Leahy presented Dr. Harold C. Grinnell, dean of the agricultural college, University of New Hampshire. Dr. Grinnell's principal comments dealt with the situation in the university as it relates to obtaining and holding research, extension and teaching personnel, because of the salary situation.

He said it had taken 16 months to

get a new head of the forestry department of the caliber that would permit a properly accredited department. Dr. Paul E. Bruns now holds this position. A new horticultural head is needed to replace Dr. A. F. Yeager, noted plant breeder, who is retiring. New personnel for extension work and research in ornamentals is also sought.

Dr. Grinnell said the university does not have its proportionate number of good men in agriculture; moreover, salary increases are necessary to keep those it has.

#### Horticultural Staff Introduced

Dr. William Smith, acting head of the horticulture department at the university, introduced the staff members and briefly indicated the work of each. He also mentioned the different fields in which horticultural research work is now being done. They include variety tests in vegetables, improvement of ornamentals, cultural studies with horticultural crops, nutritional studies, breeding vegetables, blueberry improvement and development, fruit rootstocks (for harder, more productive fruit trees), breeding fruits, testing new horticultural materials and breeding and testing nuts.

Dr. Smith also reported for the

publicity committee and mentioned a new brochure to cover new and significant plant materials for New Hampshire, including introductions of the university in roses, monardas, chrysanthemums, raspberries and lilacs. The New Hampshire planning and development commission will publish this folder, and a list of sources of the materials will accompany the publicity folder. Both publications will be released this spring.

The membership was reported to have decreased to 125, partially because of the increase in dues. Need was expressed for more active membership committees in each county.

A motion was introduced to set up a committee to develop a program for furnishing plant materials to garden clubs and others who were cooperating with New Hampshire roadside improvement associates in planting and maintaining public gardens. This would apply particularly to the New Hampshire introductions and the Granite series of hardy chrysanthemums because of their color and easy maintenance quality.

Dr. Arthur Bing, associate professor, Cornell University ornamental research laboratory, Farmingdale, L. I., N. Y., was guest speaker in the afternoon, and his subject was "The Latest on Weed Control." In this illustrated talk, the data concerned weed control in pansies, gladioli, peonies, cymbidiums, roses and evergreens.

Dr. Bing stated that material reduction in weeding costs can be realized by the use of chemicals. Hand weeding of specialized crops may range from \$200 to \$800 an acre, whereas use of chemicals may reduce this to \$20 to \$300 per acre. If chemicals are properly used they may cause less damage than do mechanical methods.

He also said that steam is effective and the waiting period for planting is short.

Methyl bromide at one pound to 100 square feet for weed seeds and nematodes and four pounds to 100 square feet for fungi applied when soil temperatures are 60 degrees Fahrenheit or more is effective. It usually can be used safely in benches next to growing plants. A plastic cover is used. This chemical should never be used where carnations are to be planted.

Dr. Bing indicated that Vapam has proved satisfactory for pansies. The soil should be treated in late July or early August, in advance of planting. The cost is about \$300 per acre for material.

Crag Sesone has proved a good  
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#### ELECTION AT RECENT RHODE ISLAND MEETING



Officials of the Rhode Island Nurserymen's Association elected at the group's annual meeting at Providence: Left to right, K. J. Murphy, East Providence, treasurer; Klaas Van Hof, Portsmouth, retiring president; Carl L. Vitale, Cranston, newly elected president, and Anthony Williams, Cranston, secretary.



Participants in the Massachusetts Nurserymen's short course held recently at the Waltham field station, Waltham, Mass.: Left to right (front row), Dr. Robert Ticknor, Seth Kelsey, Willard Bond, Gilbert E. Merrill, Dr. John Havis and Donald D. Wyman; (back row) Barry Real, Clifford Chater, Joseph Brine, George Tuoti, William Flemer III, Albert Dodge, Henry Gilbertson and John Dwyer.

## Trees, Massachusetts Course Topic

By Herbert C. Fordham

The fourth annual short course for nurserymen sponsored by the Massachusetts Nurserymen's Association was held at the Waltham field station, Waltham, Mass., February 19 and 20. Favored by an exceptionally well-planned program and good weather, a near-capacity audience of over 200 attended the sessions. This year's short course was designed to cover the subject of trees—their selection, production, handling, use and care.

Seth L. Kelsey, Kelsey-Highlands Nursery, Inc., East Boxford, chairman of the M. N. A. educational committee, opened the meeting with a welcoming address.

The first speaker to be introduced was Donald D. Wyman, Bay State Nurseries, Inc., North Abington, Mass., who spoke on "Selection of Better Standards and New Varieties for New England." Mr. Wyman cited a number of examples of tree species found growing in New England that are not generally believed hardy in the area.

### Tree Selection

He stated that in selecting the ideal tree for any situation one must consider several factors. Among these are hardiness of the species; rapidity of growth; relative freedom from insect pests and disease; beauty of foliage, flowers, fruit and bark; ability to recover after transplanting, and form. Mr. Wyman feels that a

tree's form is of greatest importance since a tree is clothed in foliage for only five months of the year.

In his talk, Mr. Wyman discussed the 10 trees that he considers most desirable for Massachusetts. Norway maple, with its red-leaved varieties, was recommended for its ease of culture and maintenance. The sugar maple was selected for fall color, and the pin oak for its sturdiness, pendulous form and rapidity of growth.

Rated high were the honey locust and its selected varieties, such as the Shademaster locust, which stands erect without requiring staking during its early stages of growth. Other thornless locust forms suggested were Imperial, Skyline and Majestic.

Completing his list, Mr. Wyman named European linden for its fine round-headed form and ability to assume good shade tree proportions quickly, the red oak and *Nyssa sylvatica* for excellent fall color, *Cercidiphyllum japonicum* and Washington hawthorn as good medium-size trees and the English beech for disease and insect resistance.

English beech, he feels, is not suited to the small home lot. In spite of its slow growth, it eventually attains too great a size for such use.

### Outlines Nursery Practices

William Flemer III, Princeton Nurseries, Princeton, N. J., spoke on "Planting, Transplanting, Cultivating, Pruning and Root-pruning" as

practiced at Princeton Nurseries. Mr. Flemer placed emphasis on proper soil preparation prior to the planting of young trees.

It is of utmost importance, he stated, to select a well-drained site not only for the development of a good root system but for ease in digging. The use of a good cover crop one year in advance of planting was also recommended. This should be turned under as deeply as possible during late fall.

Trimming of young stock is most easily handled before the trees go into the field. He suggested that, in trimming trees which have an upright-branching habit, one should prune side branches two thirds and leave the terminal leader intact unless it is injured. Those trees which have a horizontal-branching habit are best pruned relatively close to the main leader, but one should not remove any of the lower branches at this time.

Mr. Flemer found, in regard to the use of sod vs. clean cultivation, that there was a far greater increase in caliper size of young trees when clean cultivation was practiced.

"Only after trees have attained a size of  $3\frac{1}{2}$  to 4-inch caliper," he stated, "do we advocate the use of sod between the rows, for it is at this time that we prefer to slow down a tree's rate of growth." Root-pruning, too, will generally slow down the

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Speakers on the program of the Maryland nurserymen's short course held recently at the University of Maryland, College Park, Md.: Left to right, James Wells, James S. Wells Nursery, Red Bank, N. J.; Prof. R. P. Meahl, Pennsylvania State University, University Park, Pa.; Dr. Lee J. Enright, University of Maryland; Dr. Conrad B. Link, University of Maryland, and Gilbert Gude, A. Gude Sons Co., Rockville, Md., president, M. N. A.

## Maryland Short Course

### Highway Landscaping, Plant Exploration, Research, Plant Pests and Propagation, Were Topics Discussed

By Harry W. Dengler

Despite bitter cold and one of the windiest winter days on record, a capacity group of nurserymen, their wives and guests were on hand to hear an unusually varied and full program at the annual Maryland nurserymen's short course on February 19. Headquarters for the course was the Student Union building, University of Maryland, College Park, Md. Gilbert Gude, A. Gude Sons Co., Rockville, president, Maryland Nurserymen's Association, presided at both the morning and afternoon sessions.

The program got under way with a discussion on the plants to be used and the landscape techniques involved in planting the 353 miles of interstate highways planned in Maryland by the federal government. The speaker, Charles R. Anderson, landscape superintendent, Maryland state roads commission, Baltimore, reported that the federal government is to pay 90 per cent of all landscaping costs.

All plantings are to be mulched with a 4-inch coating of wood chips. This should cut watering costs by about 90 per cent and assist the plants in becoming properly established. An occasional top-dressing of

a nitrogenous fertilizer will be given the mulched plants to offset any nutrient deficiencies if these should appear.

#### Native Materials Preferred

Native trees and shrubs will be used whenever practical. Trees of 2½ to 3-inch caliper will be favored, since the planting of whips has not proved successful. It is planned to use mostly balled and burlapped stock, including deciduous shrubs, Mr. Anderson said. Red and sugar maples and pin, scarlet and willow oaks will be favored when suitable and adapted to the sites. The thornless variety of honey locust will be used because of its ease in transplanting, and ash and linden trees will be included.

Crab apples, hawthorns and dogwoods in the 4 to 5-foot and the 6 to 8-foot classes will be used also. The crab apples, Mr. Anderson related, transplant well and are attractive both in flower and fruit. Since the dogwoods, however, do not thrive in hot roadside areas, their use will be restricted to woodland edges.

White and Austrian pines will be used rather heavily in industrial areas, while Scotch and Japanese

white pines will be planted elsewhere. Holly, because of its beautiful foliage and fruits, will be used when suitable. The Japanese rose and other shrubs will be used to delineate curves and to serve as traffic barriers.

While the reduction of headlight glare has often been discussed, little research has been done on the subject. Maryland plans, Mr. Anderson reported, to experiment with various plants and designs to find out exactly how this annoyance can be remedied. Mr. Anderson concluded his discussion with a series of slides depicting the uses of various trees and shrubs in roadside landscaping.

Dr. Fred Meyer, taxonomic botanist, United States Department of Agriculture plant industry station, Beltsville, Md., gave an entertaining account of his 9-month plant exploration trip to Europe in 1957. This trip, he said, was undertaken in co-operation with Longwood Gardens, Kennett Square, Pa., which are interested in introducing plants of value not yet found in this country. Dr. Meyer covered 15,000 miles visiting 80 different nurseries, public and private gardens, arboreta and experiment stations, completely backtracking his itinerary in order to see plants at two different seasons of the year.

The Riviera section of southern France was found to be most productive; Spain was rather poor in cultivated plants but rich in wild ones. Much interest on plant cultivation was shown in Portugal. A beautiful sight there, Dr. Meyer recalled, was the crape myrtles used as street trees. Any nurseryman visiting Lisbon was advised to take several days to see the horticultural points of interest, which are not listed under any of the tours or in the guide books.

The French have gone to great lengths to make their section of the Riviera a tropical paradise. Dr. Meyer, who illustrated his talk with colored slides, stated that he was permitted to visit the gardens of Prince Rainier of Monaco. Near Venice, Italy, is the oldest botanic garden in the world. This was established about 1543, and the original walls still stand.

Among the many eye-catching scenes shown and described by Dr. Meyer was a 2-acre forest of towering cactus plants in a setting of rocks traversed by narrow, switchback paths. Slides showing the original plants of the Peace rose were of considerable interest to the rose-growing nurserymen attending.

A unique plan of inarching acid

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# Progress, Canadian Convention Theme

Plant Patents, Seed Buying, Container Growing and Garden Centers Discussed

By L. C. Keith

More than 200 nurserymen of Canada attended the 36th annual convention of the Canadian Association of Nurserymen, held at Prudhomme's Garden Center, Vineland Station, Ont., February 23 to 25. Never were the general meeting and sessions for growers, landscapers and garden center operators better attended nor was interest keener.

The theme of the convention, "Change of Pace," was in keeping with the challenge facing the industry to keep abreast with the times and to find newer and more efficient methods of producing and distributing stock to meet the public demand.

Highlighting the annual business meeting held the last morning were the election of officers, the plant patent vote and the address of the president. J. E. Shuttleworth, Little Tree Farm, London, Ont., was elected president of the association for the coming year, succeeding W. B. Wellington, Fonthill Nurseries, Fonthill, Ont. The other officers elected were as follows: First vice-president, J. McDonald, Lacombe Nurseries, Lacombe, Alta.; second vice-president, W. H. Perron, W. H. Perron & Co., Ltd., L'Abord a Plouffe, Que., and secretary-treasurer, J. R. Burns, Ottawa, Ont.

Directors for the year are V. Johnson, New Westminster, B. C.; L. Hancock, Woodland Nurseries, Cooksville, Ont.; H. Eddie, H. M. Eddie & Sons, Ltd., Vancouver, B. C.; George Downham, H. C. Downham Nursery Co., Ltd., Strath-



W. B. Wellington, (left), retiring president of the Canadian Association of Nurserymen, congratulates J. E. Shuttleworth, newly elected president, and his wife at the C. A. N. convention at Vineland Station, Ont., Canada.

roy, Ont.; Carl Luck, Royalvale Nursery, Ltd., Montreal, Que.; Frank Fillmore, Fillmore's Valley Nurseries, Ltd., Centreville, N. S.; Les Solty, Leslie L. Solty & Son, Toronto, Ont., and Len Cullen, Weall & Cullen Nurseries, Willowdale, Ont.

For three days the question of plant patents was discussed and was one of the most controversial issues at the convention. The proposal to have the Canadian association endorse plant patents and to have it do what it could to have plant patent protection made available in Canada was defeated by vote.

In his presidential report, W. B.

Wellington outlined the activity of the association during the year. He mentioned that the membership of the association is the largest in its history. New groups have been organized in Alberta, Saskatchewan and Manitoba, as well as a group known as the Prairie Nurserymen's Association. In addition to these, there are active groups in other parts of Canada.

He spoke of the advertising program and the publicity program, which included the development of a pamphlet, *Your Guarantee*, and a planting guide booklet. Films were made available to members. He spoke of the important role of the



Program speakers at the recent convention of the Canadian Association of Nurserymen: Left, Jack Hill, D. Hill Nursery Co., Dundee, Ill., who spoke on container stock; right, members of a panel on seed buying: Moderator (standing), Prof. J. C. Taylor, Ontario Agricultural College, Guelph, and, left to right, W. H. Perron, Montreal, Que.; C. De Groot, Toronto, Ont.; Philip Jones, George J. Ball, Inc., West Chicago, Ill., and W. E. Edwards, Angus, Ont.

Canadian Horticultural Council, which funnels matters pertaining to the industry to the appropriate committees set up by the government. He mentioned plant patents and the 11th annual short course.

He reported on the work of the education committee and the progress on the proposed Ontario horticultural diploma correspondence course sponsored by the Ontario Agricultural College, Guelph, Ont. He noted the increase of imports of nursery stock from the United States and stated that this should be of interest to any factions in America who anticipated setting up restrictions that might affect the export of nursery stock to the United States.

#### Financial Position Strong

He reported the financial position of the association as being strong and paid tribute to departed members Bill Haist, Stan Wellington and Francis Meillard. He spoke of the close cooperation between the Canadian association and the American Association of Nurserymen and the benefits derived from the exchange of bulletins and publicity releases. The association also keeps a record of slow-paying accounts for member information.

Plant production research was mentioned and the advantage to the association of having the interest and cooperation of Dr. Stuart Nelson, Canada department of agriculture, Ottawa, who is chairman of the committee. Mr. Wellington concluded his report on activities of the past year by thanking the executives and members of the association.

Many of the delegates arrived the day before the official opening of the meeting on Monday morning, February 23, to enjoy a social get-together on the eve of the convention. The Ontario association acted as host, and a happy time was spent meeting and greeting friends and acquaintances. From the weather standpoint, those who arrived early were fortunate, for on Monday morning the weatherman played havoc with the roads to Vineland Station, and traveling conditions were at their most hazardous.

#### Opening Session

The 36th convention opened with the general chairman, C. M. Barron, Fonthill, Ont., welcoming the members and turning the meeting over to Prof. C. E. McNinch, Ontario Agricultural College, Guelph, Ont., general chairman of the growers' session. The first speaker was Dr. S. H. Nelson, Canada department of agriculture, Ottawa, who gave a report

of the Plant Propagators' Society meeting at Cleveland last December.

A panel discussion on what to look for when buying seeds proved of general interest. Prof. J. C. Taylor, Ontario Agricultural College, acted as moderator and put questions to the four members of his panel, C. DeGroot, Sheridan Nurseries, Ltd., Sheridan, Ont.; W. H. Perron; Phil Jones, George J. Ball, Inc., West Chicago, Ill., and W. E. Edwards, Ontario Tree Seed Plant, Angus, Ont.

Mr. Jones said it was important for one who is buying seeds to have confidence in his dealer. A good dealer gives consideration to five basic points: (1) Seeds must be grown, cleaned, stored and packaged properly; (2) seeds as kept by a dealer should be tested regularly for germination; (3) seeds should be true to name and labeled correctly; (4) dealers should be in a position to give cultural data that might be requested, and (5) dealers should give adequate service.

When asked about the advantages of collecting one's own seeds, Mr. DeGroot stated that he considers the practice beneficial in obtaining good germination and in determining the correct time for sowing. Mr. Edwards stated that his firm collects its own seeds because no commercial firm supplies the type of seeds required.

#### Grass Seed Mixtures

The discussion concluded with detailed remarks on grasses and grass seed mixtures for central and eastern Canada by Mr. Perron. He pointed out that grass lawn seed mixtures offer a large and interesting field for fly-by-night salesmen and urged that before one buys seeds he should investigate, have samples analyzed or buy from responsible members of the Canadian Association of Nurserymen.

His suggestion for a good all-round, inexpensive lawn seed mixture for sunny and partly shaded situations was 30 per cent Kentucky bluegrass No. 1, 10 per cent Canada bluegrass No. 1, 30 per cent red creeping fescue No. 1, 10 per cent red top No. 1, 10 per cent Highland Bent No. 1 and 10 per cent ryegrass No. 1.

Mr. Perron stated the mixture can be improved by doing away with ryegrass altogether and replacing it by increasing the proportions of Kentucky bluegrass and red creeping fescue to 35 per cent each. This would cost more, however, and customers would not be satisfied at first.

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D. P. Henegar, new executive secretary of the Southern Nurserymen's Association.

#### SOUTHERN MEETING

The board of directors of the Southern Nurserymen's Association met at the Robert Myer hotel, Jacksonville, Fla., February 27 and 28 and named D. Porter Henegar, McMinnville, Tenn., executive secretary of the organization. Mr. Henegar replaces Leo B. Scott, Spartanburg, S. C., who was unable to continue in the position because of illness.

Mr. Henegar, a former nurseryman, is also the newly appointed executive secretary of the Tennessee Nurserymen's Association and serves the McMinnville chamber of commerce as executive secretary on a part-time basis. Previously he had been president of both groups.

Attending the executive committee meeting were President Hubert A. Nicholson, Commercial Nursery Co., Decherd, Tenn.; vice-president and director Edwin Fraser, Southern States Nurseries, Macclenny, Fla.; directors George Coulter, Carolina Nurseries, Charlotte, N. C., and Robert W. Boyd, Globe Nurseries, McMinnville; treasurer James Stubbs, Atlanta, Ga.; past president Dan Reynolds, L. A. Reynolds Co., Inc., Winston-Salem, N. C.; James Patterson, chairman of the research workers' council, and Mr. Henegar.

#### Other Business Activities

The business activities also included the appointing of Herman Owen, T. G. Owen & Sons, Columbus, Miss., to the unexpired directorship of Tom Dodd, Jr., Tom Dodd Nurseries, Semmes, Ala., who had resigned. There was also much discussion about the S. N. A. convention, which will be held at the Robert Myer hotel, Jacksonville, August 23 to 25.

# Sponsor Local Landscape Workshop

By W. I. Huddleston

The Iowa-Illinois Association of Professional Landscape Men and Nurserymen, composed of leading nurseries at Davenport, Rock Island and Moline and in surrounding communities, recently completed a highly successful landscape workshop.

A committee was appointed last September to promote and conduct an information school on landscaping that would be open free to the public. This committee was composed of W. I. Huddleston, Platt's Landscape Nursery, Davenport, chairman; George Scherer, Scherer's Garden Center, Rock Island, and Mike Hansen, Hansen's Nursery, Long Grove, Ia. It was decided to call this educational program a landscape workshop and to offer it on five consecutive Tuesday nights beginning February 10.

The posters and newspaper advertisements prepared by the association to promote the affair were supplemented with free publicity on radio and television programs featuring local events and in newspaper articles. The association also printed a quantity of programs, which were distributed to various service organizations to be distributed to their members. This last phase of the publicity campaign, however, proved rather costly for the response it brought.

A room was rented at the Rock Island Y. W. C. A. in which to hold the workshop sessions. Two telephone numbers were advertised for persons wishing to call for reservations, and registration blanks to be

turned in to member nurseries were provided in the newspaper advertisements and in the programs sent to the service clubs.

## Response Gratifying

The response was greater than was anticipated, and late reservations had to be refused because of lack of room. Actual attendance averaged about 100 persons, despite the fact that the area experienced some of its worst winter weather on two of the nights.

The success of the workshop publicity is pointed up by the fact that persons who had sponsored similar programs in other fields had advised the committee that it would be lucky to get an attendance of 50. Names and addresses secured through the reservations and from a door prize drawing on the last night are being compiled and will be sent to the participating nurseries.

Local nurserymen or their employees presented the lectures on the program, except for the talks on annuals and perennials delivered by two local women well versed in these subjects, who did a commendable job. The workshop sessions each evening consisted of two 55-minute periods, each including a 45-minute lecture and a 10-minute question and answer discussion. During a 10-minute break between the two periods, coffee and doughnuts were served.

The following are the subjects covered and the time allotted to each: First night, trees (45 minutes) and lawns (45 minutes). Second night, evergreens (45 minutes) and shrubs (45 minutes). Third night, landscape design (45 minutes), annuals (22 minutes) and perennials (22 minutes). Fourth night, roses (25 minutes), vines and ground covers (20 minutes), broad-leaved evergreens (20 minutes) and fruits (25 minutes).

On the last night, patios, walls and pools were discussed in a 30-minute lecture. The rest of the time was devoted to questions not previously covered and to the showing of the American Association of Nurserymen film, "Basic Technique for Home Landscaping" and an Ortho film on orchids. Advertising was eliminated from the workshop sessions as completely as possible, the participating members feeling that the good will created would repay



Walter Brakeman, Home Nursery, Lafayette, Ill., talked on landscape design.

them amply for the time and money spent on the project.

## Trophy Awarded at Last Session

At the last session a trophy was presented to an individual in the area who had made outstanding contributions to the fields of landscaping or gardening. This trophy, which is to be an annual award, was designated as the William H. Mast memorial trophy, in memory of Mr. Mast, late owner of the Davenport Nursery, Davenport, Ia., who died at the Dallas A. A. N. convention last summer.

The trophy was donated and presented by Mrs. Mast to a local woman who has done much work for the garden club as well as in her own garden. This presentation appeared [Concluded on page 40]



Neal Rohlfs, Neal Rohlfs Nursery & Garden Center, Davenport, talked about roses.



W. I. Huddleston, Platt's Landscape Nursery, Davenport, talked on patios.



Main entrance at Hastings' new garden shopping center in southwest Atlanta, Ga. Service door to shop and double service door to warehouse facilitate loading of bulky items by customers. There are parking facilities on three sides of the establishment.

## Hastings' Third Center Serves Atlanta

The third garden shopping center to be established by the H. G. Hastings Co., seedsmen and nurserymen, Atlanta, Ga., was opened recently on Cascade road at Fairburn road, nine miles southwest of downtown Atlanta. Located on a 6½-acre tract, the brick and concrete block garden store occupies 32,000 square feet. Additional supplies of stock items are kept in an adjoining warehouse of the same size.

Supervised by Alan Standard, the store offers extensive seed and bulb displays, pottery and house plants in addition to gardening supplies and equipment. Also featured is a well-stocked pet department, including a selection of books on the care and training of pets, under the management of A. A. Camp. Modern washroom facilities are provided for the customers' convenience, and all en-

closed areas are air-conditioned in the summer and heated in the winter.

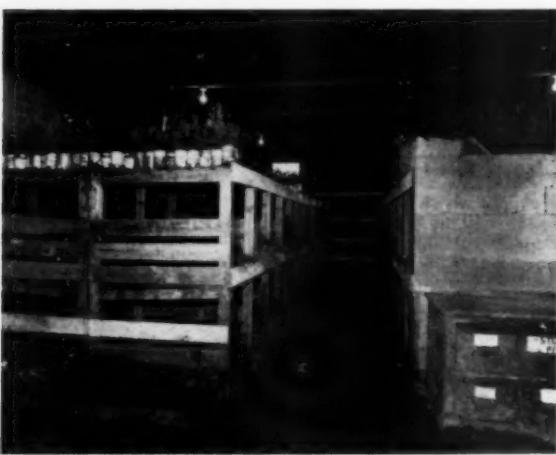
A 100x100-foot nursery sales area, shaded with roof and walls of snow fencing, is reached directly from the store. Manager of the nursery department is Raiford Broome, formerly of Shreveport, La. The plant beds in the nursery area are drained by means of a tile system, and the walks throughout are concrete. A paved area surrounding the store, warehouse and nursery salesyard provides parking facilities for 150 cars.

The concrete block packing shed, located down a slope from the garden store, affords facilities for packing orders to be shipped by mail. Bin storage is provided in the shed for certain stock items, such as roses, and other plant materials are avail-

able in an adjoining heating-in area that extends over approximately three acres.

Held late last year, the garden center's grand opening proved highly successful, despite extremely cold and rainy weather. Representatives of several manufacturers and suppliers were present to assist Mr. Standard and the department heads in welcoming the many visitors and answering their questions. Refreshments were served and free gifts and prizes offered, including 2,500 dogwoods.

The H. G. Hastings Co. opened the first of its garden shopping centers, located about five miles northeast of downtown Atlanta, in 1955, with Charles J. Hudson, Jr., as manager. The second, managed by Francis B. Pool, was opened at Charlotte, N. C., in 1957.



Bin storage for plants in packing shed, at left, and, right, cashier's stand, with bulb, book and flower seed departments in background, at recently opened Hastings garden center shop in new residential area at Atlanta, Ga.



# Papers Heard at Shade Tree Meeting

By Noel Wysong

The 14th annual meeting of the Midwestern chapter of the National Shade Tree Conference, held February 18 to 20, at the Hotel La Salle, Chicago, Ill., was declared in session Wednesday morning, February 18, by Marvin Stevens, president.

President Stevens then extended a warm welcome and spoke of the values to be derived from a meeting of persons having common interests. Prominent among those values were those of establishing better trust and fellowship among arborists. The Midwestern chapter of the N. S. T. C., he said, is created to build friendly relations among tree workers and, through exchange of knowledge, improve tree care service. He reminded the members that the chapter is growing in size and influence and urged attendance at all sessions, including the business meeting.

### Useful Tools for Tree Troubles

The first formal paper of the program was presented by J. C. Carter, head of the section of botany and plant pathology, Illinois natural history survey, Urbana. With "Tools Useful in Diagnosing Tree Troubles" as his subject, Dr. Carter defined the term "diagnosis" as "the art of recognizing the presence of disease from its symptoms and deciding on its character." In performing diagnoses of tree ailments, numerous tools are useful and some are essential; these include a sharp knife, shears, ax, saw, extension pruner, shovel, hand lens or magnifying glass and, for special conditions, a leather punch, field glasses, profile tube, soil test kit, tissue test kit, increment hammer, increment borer and an aquaprobe.

Displaying the various tools mentioned and using color slides to illustrate his remarks, Dr. Carter described in detail the uses to which each of the tools might be put. A knife, he said, is used to collect small branch samples and to remove sections of bark from limbs or trunk in searching for symptoms of fungus infection or insect infestation. Hand shears can be used in collecting branch samples for laboratory culture, and an extension pruner can be used for the same purpose when suspected infected branches are high in the tree. An ax is used to cut through heavy bark to examine the inner tissues or to drive a punch through the

bark to obtain small specimens for use in diagnosing such diseases as phloem necrosis. A saw is needed to remove larger, infected limbs.

A shovel and a profile tube are used, he said, in checking on soil conditions, taking soil samples for testing, detecting the presence of girdling roots and removing the soil to check on the health of the roots. Rating a hand lens as almost indispensable in diagnosing tree troubles, Dr. Carter said this instrument makes it possible to see and identify such small objects as the fruiting bodies of fungi, red spider mites and the crawlers of scale insects. Field

glasses are useful, he said, in examining branches high in the tree and locating and identifying such ailments as an infestation of scale insects, bark cankers and wounds.

### Use of Soil Test Kit

Dr. Carter suggested the use of a soil test kit to determine the fertility and pH of soil when the tree appears to be troubled by nutritional deficiencies. Somewhat similar in nature is the tissue test kit; with this kit the nutrients in the leaf tissues may be determined as an aid toward applying the proper kind and amount of fertilizer.

An increment hammer, Dr. Carter said, is used to take short cores of bark and wood in examining for bark canker and streaking or discoloration in the sapwood. The increment borer may serve the same purpose, but with this tool a long core of wood, extending well toward the center of the stem, may be taken. Examination of a wood core may reveal the presence of such diseases as verticillium wilt, wood rot, wetwood and others; the growth rate of the tree can be ascertained by counting the number of annual rings per inch on the wood core. The aquaprobe, a rather new tool on the market, is useful in measuring the relative moisture content of the soil.

"Trees for Street and Home Planting" was the subject of an excellent talk presented by John C. Van Camp, Midwest Shadetree Consultants, Rockford, Ill. Pointing out that a large percentage of the trees in both street and home plantings in most midwestern communities and cities consists of elms, Mr. Van Camp said many of these communities probably would be faced shortly with the problem of removing many dead trees caused by the presence of Dutch elm disease in the area. As these elms die they will be replaced with other trees; new communities now in the process of development also will be planting trees. In all cases, he emphasized, the selection of species for planting should be based on such factors as street width, tree lawn width, sidewalk width, distance to buildings, building height, traffic conditions, the location of both overhead and underground utilities, growth habits and maintenance requirements.

Limited space above the tree may  
[Continued on page 124]

### NEW A.A.N. BOARD MEMBER



James B. Fitzpatrick

The board of directors of the American Association of Nurserymen recently announced the appointment of James B. Fitzpatrick, Texas Nursery Co., Sherman, Tex., to represent region V of the A. A. N., filling the vacancy created by the death of C. J. Lauden. The appointment will run until the board of governors meets at the A. A. N. convention at Philadelphia in July.

Mr. Fitzpatrick was born at Sherman in 1909 and was educated in the public schools there. He was graduated in 1931 from Texas A. & M. College, College Station, with a degree in landscape art. He first began working for Texas Nursery Co. in 1917, and except for his time at college, a few years with the national park service, active duty with the civilian conservation corps and three years with McNeal Construction Co., San Antonio, he has been with the company since that time. He became a vice-president in 1947, general manager in 1952 and president in February, 1958. He served as president of the Texas Association of Nurserymen in 1951-1952.

# Merchandising Nursery Stock, Long Island Meeting Topic

By Robert H. Brewster

Merchandising of nursery stock and bedding plants were among the subjects discussed at the recent Long Island meeting for nurserymen, garden supply dealers and bedding plant growers held at Knapp Hall, Long Island Agricultural and Technical Institute, Farmingdale. Session chairmen who represented sponsoring groups included Prof. Joe Roesch, of the institute; George Runge, Nassau county extension service; Robert Brewster, Suffolk county extension service, and George Hren, Huntington Station, president of the Long Island Nurserymen's Association.

Harry Raben, Syosset garden supply center operator, discussed how dealers should consider the various types of businesses. The choice between a self-service or customer-service operation is affected mainly by the neighborhood where the center is located and by trial-and-error results. Each center must develop its own merchandising policy. That is, the average amount that one's customers purchase must be determined, and then the dealer must supply merchandise for this price bracket. The speaker suggested keying merchandise and tabulating sales by a bimonthly system in order to see how much moves. Mr. Raben suggested budgeting or planning purchases in advance to help insure a good turnover each season.

Stressing seasons and merchandise for each season, with an overlapping of exhibits, is desirable. Have sales at the end of each season. Sell by suggestion. As a rule, customers buy promises and are in-

fluenced by the label and picture which accompany products. Mr. Raben suggested cultural instructions, booklets that may be given away by various manufacturers and paper-bound garden booklets.

## Tie-in Sales

Tie-in sales are important too. According to Mr. Raben, about one third of the goods in his garden supply center are sold through impulse buying. Therefore, in sales of roses, for instance, the garden supply dealer should have, close at hand, rose fertilizers, pruning shears and illustrations on how to prune roses, stakes, ties and insecticides particularly for roses. These displays should be bright and brief and should tell a story. It is best if they are placed at the eye level of the average woman and are easily accessible.

Publicity and advertising should be a fixed operational cost. The amount spent depends on the competitors and the size of the community. Large New York city department stores spend 3 to 5 per cent on advertising. They recommend showing prices, being specific as to the time and place of the sales, and the use of leaders.

Institutional advertising helps to keep the firm's name before the public. Manufacturers should do the brand advertising. Even the appearance of the center or place of business may be a form of advertising. If the garden center does a great volume of sales, then perhaps newspaper advertising might produce the best results, but this is an expensive form of advertising. Direct mail

is especially good for some particular areas on Long Island, if the center is small and has a selective customer appeal.

## Merchandising Bedding Plants

Arthur Thomas, Syosset, reported that the bedding plant industry has grown from virtually nothing to a large-size industry on Long Island. Garden supply centers must make rapid turnover of bedding stock, and it is difficult to determine costs and, therefore, profits. Wholesale plant producers must grow bedding plants on an assembly line basis. The retail grower of bedding stock should be more careful in his growing, yet at the same time be in a position to buy and sell bedding stock. Mr. Thomas thought that a broker system was needed to help the retailer.

Regarding advertising policy, Mr. Thomas thought that each business must have its own personality, which its advertising should express. Advertisements should excite the interest of the public. Sales leaders are necessary to bring in the traffic.

In the producing of bedding stock, he suggested that whatever growing medium is used must be sterilized. The medium and type of container used are matters of the grower's preference. He uses pony or market packs.

## Customer Reactions

George Hren headed a panel of five local homeowners, or customers, who spoke their minds. They reported that they want service. They, as a rule, do not have enough storage space in modern houses and, therefore, are looking for better plant containers.

A survey made at Pennsylvania State University, University Park, indicated the public has a limited knowledge of nursery products. In many cases the homeowner buys the

[Continued on page 80]



Speakers at the meeting held for nurserymen, garden supply dealers and bedding plant growers at the Long Island Agricultural and Technical Institute, Farmingdale, L. I., N. Y.: Left to right (at left), George Runge, Peter Costich, and Prof. John C. Cornman; (at right) George Hren, Harry Raben, Arthur Thomas and Robert Brewster.



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When you treat your soil with VAPAM soil fumigant, you help your plants grow faster, produce better. That's because you control most soil pests including weeds, nematodes, soil fungi and many soil insects.

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VAPAM is recommended for propagating bed soils, potting soils, top-dressing soils . . . in fact, practically any soil you expect to use for seeds, bulbs or transplants.

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Millions and  
Millions of Pots  
ago as now . . .

## THE BIG NEWS IN BIGGER PROFITS

# Cloverset POTS

More than 20 years ago, nurserymen were introduced to a new wrinkle in plant containers—the Cloverset Pot. It was a low-cost container that made cash-and-carry sales more profitable. It stimulated more sales, because it enabled nurserymen to economically pot stock previously sold bare root and to present it for sale in a more attractive form—alive and growing, yet simple to set out. Millions of Cloverset Pots have been made and used in the last 20-odd years and they still tell the same profitable story. If you've never tried them, order a sample set now.

### HERE'S WHY CLOVERSET POTS ARE SUPERIOR TO OTHERS:

1. Lasts a full year or more in the sales frame.
2. Contains roots safely within the soil ball; permits transplanting any time.
3. Has adequate bottom opening for good drainage without water-logging; no gravel necessary.
4. Rests on wide bottom; no blowing over in the frames.
5. Available in sizes to accommodate stock of any salable size.
6. Is neat and uniform in appearance, an asset to the sales area.
7. Tough enough to permit easy handling in potting shed and frame.
8. Easy for customers to remove—at once, a week later or even a month after they take stock home.
9. Lightweight (but with all these qualities) to save on freight costs.
10. . . . and sufficiently low priced so that it may be given away with the plant.

### SIZES FOR EVERY NEED

#### Roses, Perennials, Shrubs and Young Trees

Size	Height	Top Diam.	Nearest Clay Pot	No. in Carton	WEIGHT Per 1000	F.O.B. Kansas City		Cloverset Pot Prices	F.O.B. Kansas City
						Per 100	Per 1000		
No. 0	5 1/2 ins.	5 ins.	6 ins.	200	210 lbs.	\$4.25	\$40.00		
No. 1	6 1/2 ins.	6 ins.	7 ins.	100	340 lbs.	5.25	50.00		
No. 2	9 1/2 ins.	7 ins.	8 ins.	100	535 lbs.	5.75	55.00		
No. 3	9 ins.	8 ins.	9 ins.	100	600 lbs.	6.25	60.00		
No. 4	13 ins.	12 ins.	....	25	133 lbs.	25 potts, \$7.70; 50 potts, \$14.60; 75, \$21.75; 100, \$26.15; 1000, \$231.00.			

Send in the Handy Coupon  
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I enclose 50c; please send me a sample set of Cloverset Pots (if I fit, one set).

Please send me information on Cloverset Pots and Cloverset Rose and Garden Dust.

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## COMING EVENTS

### MEETING CALENDAR

April 9 and 10 — Holly Society of America, Inc., 26th meeting, Horticulture building, Rutgers University, New Brunswick, N. J.

April 11 and 12 — Canadian chapter, National Shade Tree Conference, annual meeting, Beacon Arms hotel, Ottawa, Ont., Canada.

May 5 to 8 — Western chapter, National Shade Tree Conference, winter meeting, Richelieu hotel, San Francisco, Calif.

May 25 and 26 — Short course for Texas nurserymen, Memorial Student Center, Agricultural and Mechanical College of Texas, College Station.

May 28 to 30 — Florida Nurserymen and Growers Association, convention, Robert Meyer hotel, Jacksonville, Fla.

June 3 and 4 — California Association of Nurserymen and the department of ornamental horticulture, California State Polytechnic College, San Luis Obispo, annual nurserymen's refresher course, Cal Poly campus.

June 7 to 9 — Alabama Nurserymen's Association, annual convention, Admiral Semmes hotel, Mobile, Ala.

June 14 to 16 — South Carolina Nurserymen's Association, annual convention, Wade Hampton hotel, Columbia, S. C.

June 18 and 19 — Fifth annual nurserymen's and growers' short course, University of Florida, Gainesville, Fla.

June 21 to 24 — New Mexico Association of Nurserymen and Plains Nurserymen's Association, fifth joint convention, Holiday Inn motel, Roswell, N. M.

June 23 and 24 — Short course for Missouri nurserymen, University of Missouri, Columbia, Mo.

June 28 to 30 — Mississippi Florists' and Nurserymen's Association, convention, Eola hotel, Natchez, Miss.

July 18 to 23 — American Association of Nurserymen, annual convention and trade show, Sheraton hotel, Philadelphia, Pa.

August 11 to 13 — Ohio Nurserymen's Association, summer meeting, Lake Erie College, Painesville, O.

August 17 to 21 — National Shade Tree Conference, annual meeting, Statler hotel, Detroit, Mich.

August 23 to 25 — Southern Nurserymen's Association, annual convention, Robert Myer hotel, Jacksonville, Fla.

### CANADA TREE PROGRAM

The activities scheduled for the annual meeting of the Canadian chapter of the National Shade Tree Conference, April 10 and 11 at the Beacon Arms hotel, Ottawa, Ont., have been announced by C. G. Dobbin, secretary-treasurer of the chapter.

After registration Friday, April 10, a business meeting at 9:30 a.m. is planned, with Gordon A. McNair, city arborist, Hamilton, Ont., as chairman. A commercial arborists'

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FRESH DORMANT ROSES  
OVERNIGHT at No Extra Cost!

A special P&D service for areas suffering loss from winter damage. No more cost than regular pool car delivery and assures you of roses when you need them.

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- Forty-Niner
- Fred Edmunds
- Fred Howard
- Golden Masterpiece
- Golden Wings
- Good News
- Grande Duchesse
- Charlotte
- Lemon Chiffon
- Lowell Thomas
- Mirandy
- New Yorker
- Nocturne
- Peace
- Pink Favorite
- Rose of Freedom
- Sutter's Gold
- Tallyho
- The Duke
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- Encore
- Fashion
- Fusillier
- Gold Cup
- Goldilocks
- Ivory Fashion
- Jiminy Cricket
- Ma Perkins
- Pinkie
- Pinocchio
- Red Pinocchio
- Spartan
- White Bouquet
- Chrysler Imperial
- Coral Dawn
- Crimson Glory
- Golden Showers
- High Noon
- Parade
- Pinkie
- Spectacular

## PATENTED CLIMBERS

- Radiance
- Red Radiance
- Saturnia
- Shining Star
- Signora
- Sister Therese
- Snowbird
- Talisman
- Texas Centennial
- The Doctor
- Virgo

## NONPATENTED HYBRID TEAS

- No. 1 No. 1½
- Angel's Mateu
- Christopher Stone
- Condesa de Sastago
- Crimson Glory
- Eclipse
- Frau Karl Druschki
- Girona
- Joanna Hill
- K. A. Victoria
- Mme. Henri Guillot
- Mrs. E. P. Thom
- Mrs. P. S. du Pont
- McGredy's Ivory
- McGredy's Scarlet
- McGredy's Yellow
- Picture
- President Hoover
- Radiance
- Red Radiance
- Saturnia
- Shining Star
- Signora
- Sister Therese
- Snowbird
- Talisman
- Texas Centennial
- The Doctor
- Virgo

## NONPATENTED FLORIBUNDAS

- No. 1 No. 1½
- Betty Prior
- Charlie McCarthy
- Else Poulsen
- Floradora
- Frensham
- Garnette
- Improved Lafayette
- Poulsen's Bedder
- Red Ripples
- Royal Chinook
- Snowbank
- World's Fair

## NONPATENTED CLIMBERS

- American Beauty
- City of York
- Doubloons
- Gold Rush
- Inspiration
- Mrs. E. P. Thom
- New Blaze
- New Dawn
- Paul's Lemon Pillar
- President Hoover
- Paul's Scarlet
- Ruth Alexander
- Snowbird
- Talisman
- Temptation
- Zenith

## WHOLESALE PATENT PRICES

	10 to 19	20 to 99	100 to 249	250 and up
Retail Price	No. 1	No. 1	No. 1	No. 1
\$1.75	\$1.00	\$0.87½	\$0.80	\$0.75
2.00	1.10	1.00	.95	.85
2.25	1.25	1.12½	1.05	.95
2.50	1.40	1.25	1.20	1.10
2.75	1.50	1.37½	1.30	1.20
3.00	1.65	1.50	1.40	1.30
3.50	1.85	1.75	1.55	1.40

Grade No. 1½ is 20% less than No. 1 price

## WHOLESALE NONPATENT PRICES

Grade	110 to 500	510 to 1000	1010 to 2500	2510 to 5000	5010 to 7500
No. 1	60c each	57c each	56c each	55c each	54c each

NOTE: Patent and nonpatent rose orders will be combined for quantity rate on nonpatent varieties.

## SHIPPING PREPAID

at pool car rate (5c per bush). P & D pays balance of air freight.

Minimum order 100 roses. Please specify if substitute variety or grade No. 1½ may be shipped if desired grade or variety is out of supply.

Trimming: Your roses will be trimmed to 8 ins., 10 ins. or 12 ins. (specify which) to facilitate air shipment. Order today!

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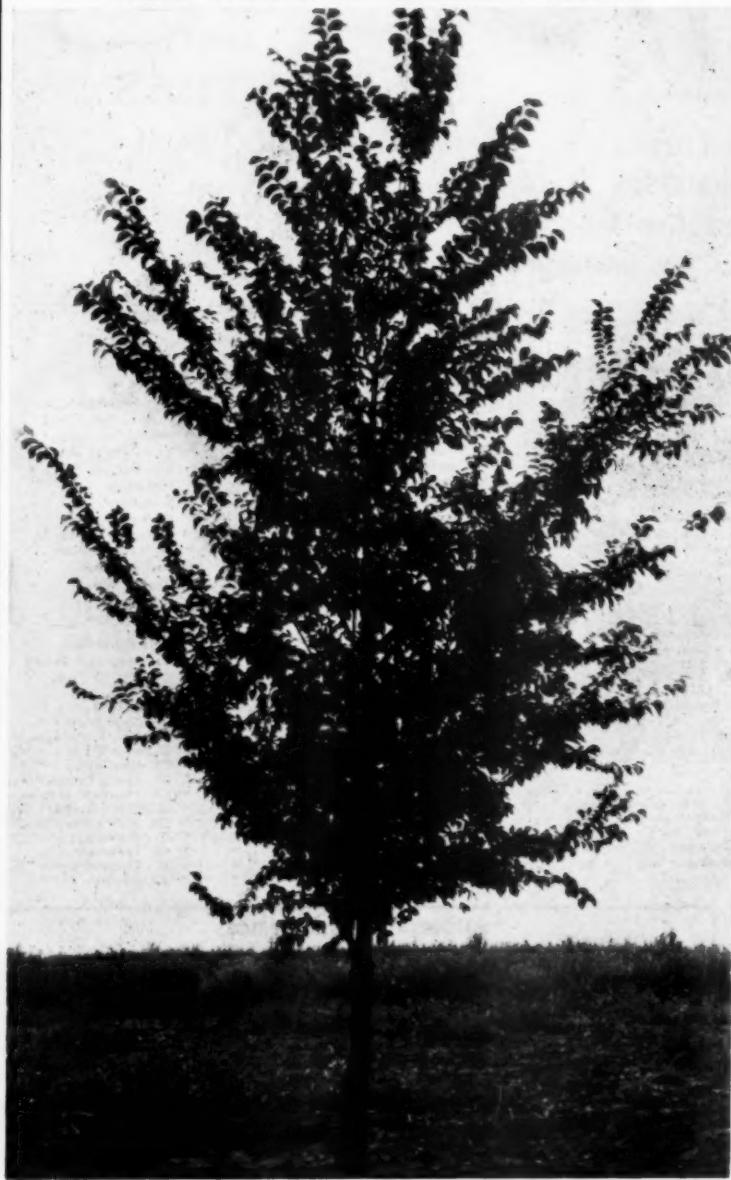
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### THE COMING SHADE TREE



Immune to phloem necrosis, extremely resistant to Dutch elm disease. Imported from Europe by U. S. D. A. Straight trunks; no forks or crotches. Branches well distributed. Foliage dense, dark green, stays on late. Ideal for lawn, street and park planting.

	Suggested Retail	Per 10	Per 100
2 to 2½-in. cal.	\$22.50	\$85.00	\$750.00
1½ to 2-in. cal.	15.00	65.00	600.00
8 to 10 ft.	10.00	45.00	400.00

These are all own-root trees. Budded or grafted trees lose their disease resistance.

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meeting is scheduled after the noon lunch and the afternoon speakers will be Dr. A. W. McCallum; Dr. E. Mastromatteo, toxicologist, division of industrial hygiene, Ontario department of health, and Professor Ozborn, department of entomology, Ontario College of Agriculture, Guelph. At the dinner meeting at 6:30 p.m., F. Earle Martin, Cedarville Tree Experts, Ltd., Toronto, Ont., president, N. S. T. C., and Mr. Adamson, vice-president, national capital commission, will be the speakers.

At 9:30 a. m., Saturday, April 11, scheduled for the program are A. R. Bicklet, curator, National Arboretum, Washington, D. C., who will speak on new trees, and Ralph Hayter, national capital commission, who will give a slide-illustrated talk on tree planting. Discussing Ottawa planning will be Peter Mansfield, city arborist. After lunch, the chapter will view commercial exhibits and demonstrations at the headquarters of the national capital commission and visit the design center at the Daly building to see plans of the future capital and a film. A banquet will end the meeting at 7 p. m.

#### HOLLY SOCIETY PROGRAM

Registration for the 26th annual meeting of the Holly Society of America, to be held April 9 and 10, will open at 2 p. m. on Thursday, April 9, at the horticulture farm No. 1, Rutgers University, New Brunswick, N. J. Registrants will visit the holly research facilities and test area of the farm before enjoying a social hour later in the afternoon and a dinner at the nearby Edgebrook restaurant. Programmed events for Thursday evening and Friday are as follows:

#### THURSDAY, APRIL 9

8 p. m.—Panel discussion on holly trends, with Dr. George S. Avery, Jr., moderator, and Dr. Clyde C. Hamilton, Rutgers University; Prof. Wallace Mitcheltree, Rutgers; Daniel Fenton, and Edgar H. Diehl, panel members, speaking on insects, soils and fertilizers, orcharding and the mail-order nurseryman, respectively.

9 p. m.—Holly research fund auction.

#### FRIDAY, APRIL 10

9:30 a. m.—Business session; reports of standing committees.

10 a. m.—"Holly, A New Frontier in New Jersey Agriculture," by Philip Alampi, New Jersey department of agriculture.

12 noon—Lunch.

1:30 p. m.—"Holly Genetics in Layman's Terms," by Richard Barrett, Rutgers University.

2 p. m.—"Physiology of Winterkill in Holly," by William E. Snyder, Rutgers University.

2:30 p. m.—"Romance of the Holly

# Mr. Nurseryman **SAVE TIME SAVE MONEY SAVE POTTING COSTS WITH MENNE-POTS**

**EXTEND  
YOUR  
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USE  
MENNE  
POTS**



## **SUPERIOR STRENGTH**

Built to last . . . the Menne-Pot will really take a beating and last a lot longer!

## **COMPLETELY ASSEMBLED**

No waiting . . . start potting immediately. Solid stapled bottom. No heating required.

## **LIGHT WEIGHT**

Save on freight costs . . . the Menne-Pot is light in weight but rugged! Easy to handle, economical to use.

## **DRAINAGE**

No waterlogging . . . side drainage prevents it, even while sitting in yard. With the Regular Menne-Pot there's no transplanting; plant pot and all.

<b>Size 0</b>	Top . . . 4" Bottom 3 1/2" High . . . 4"
Weight per 100	
Reg. 10 lbs. Heavy 25	
Regular Weight	
100 \$2.75 1000 \$25.00	
Heavy Weight	
100 \$3.75 1000 \$35.00	

<b>Size 1/2</b>	Top . . . 5" Bottom 4 1/2" High . . . 5"
Weight per 100	
Reg. 13 lbs. Heavy 30	
Regular Weight	
100 \$3.50 1000 \$32.50	
Heavy Weight	
100 \$4.50 1000 \$42.50	

<b>Size 1</b>	Top . . . 6" Bottom 5 1/2" High . . . 6"
Weight per 100	
Reg. 15 lbs. Heavy 35	
Regular Weight	
100 \$4.00 1000 \$37.50	
Heavy Weight	
100 \$5.25 1000 \$50.00	

<b>Size 2</b>	Top . . . 7" Bottom 5 3/4" High . . . 9"
Weight per 100	
Reg. 24 lbs. Heavy 55	
Regular Weight	
100 \$4.50 1000 \$42.50	
Heavy Weight	
100 \$5.75 1000 \$55.00	

<b>Size 3</b>	Top . . . 8 1/4" Bottom 6 1/2" High . . . 9"
Weight per 100	
Reg. 30 lbs. Heavy 70	
Regular Weight	
100 \$5.00 1000 \$47.50	
Heavy Weight	
100 \$6.25 1000 \$60.00	

<b>Size 4</b>	Top . . . 10" Bottom 8" High . . . 10"
Weight per 100-120 lbs.	
100 \$11.00	
500 \$52.50 1000 \$100	
*Heavy Only - For trees and shrubs	

<b>Size 5</b>	Top . . . 12" Bottom 10" High . . . 12"
Weight per 100-250 lbs.	
20-30 cts ea. 100 \$27.50	
500 \$125 1000 \$225	
*For extra-heavy trees, large shrubs	

<b>Size Pan</b>	Top . . . 8 1/4" Bottom 7 1/2" High . . . 5"
PAN Weight per 100	
Reg. 30 lbs. Heavy 70	
Regular Weight	
100 \$5.00 1000 \$47.50	
Heavy Weight	
100 \$6.25 1000 \$60.00	

## **MENNE PEAT POTS**

**Low Cost - Light Weight - Pre-Sterilized**

**Compact - Plant Pot-and-All - Plants Grow Faster**

Once you use a MENNE PEAT POT you'll never buy anything else. These top-quality domestic made peat pots save you labor of transplanting to field or bench. No labor and time wasted in storing pots. MENNE PEAT POTS also eliminate transplant shock and promote faster, stronger growth. You're sure to get top prices and more satisfied customers. For bigger profits next season, order your MENNE PEAT POTS today!

<b>1 3/4" Square</b>	
2,500 to 17,500	\$ 7.00 per M
20,000 to 72,500	6.50 per M
75,000 and up	6.00 per M
1,500 per case	30 lb. per case

<b>2 1/4" Square</b>	
2,000 to 18,000	\$ 11.00 per M
20,000 to 74,000	10.25 per M
75,000 and up	9.50 per M
2,000 per case	36 lb. per case

<b>3" Square</b>	
1,000 to 9,000	\$18.25 per M
10,000 to 49,000	17.00 per M
50,000 and up	15.75 per M
1,000 per case	30 lb. per case

<b>2 1/4" Round</b>	
2,000 to 18,000	\$ 7.25 per M
20,000 to 74,000	6.75 per M
75,000 and up	6.25 per M
2,000 per case	22 lb. per case

<b>3" Round</b>	
1,000 to 9,000	\$13.25 per M
10,000 to 49,000	12.25 per M
50,000 and up	11.00 per M
1,000 per case	28 lb. per case

<b>4" Round</b>	
500 to 2,000	\$28.25 per M
2,500 to 9,500	26.75 per M
10,000 and up	24.75 per M
500 per case	28 lb. per case

**Freight Allowed**  
On 150 Lbs. Or More  
Prompt shipment  
guaranteed on all orders.

Distributorships open in Southern States

**MENNE-POTS**  
NORTH TONAWANDA, N. Y. EUROW 4444

### **Size #0 & 0 1/2**



Mum and Carnation cuttings; 1-year perennial seedlings; bulbs; small broadleaves and evergreens.

### **Size #1**



Field growing perennials, evergreens and broadleaf for garden store sales.

### **Size #2**



Roses, small shrubs; such as Potentilla, Spiraea, Anthony Waterer, etc.

### **Size #3**



2 to 3' and 3 to 4' shrubs, field clumps of Peonies, Delphinium, Mums, etc.

### **Size #4**



Specimen shrubs; such as hybrid Lilacs, Flowering Crabs, Purple Plums, fruit trees.

### **Size - PAN**



Large flowering crabs, mountain ash, crimson kings, etc.

**MENNE - POTS INC., N. TONAWANDA, N. Y.**

Please send me complete sample set of Menne-Pots and Menne Peat Pots. I enclose \$1.50

AN 4-1

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ Zone \_\_\_\_\_ State \_\_\_\_\_

# "SLIP-ON" PLASTIC LABELS

Patent No. 2,642,684

NEWEST AND MOST PRACTICAL OF ALL PLANT LABELS!

SO NEW! SO PRACTICAL!

16 times stronger in sub-zero temperatures

Patented locking device assures you a permanent, easily attached, adjustable label. Minimizes girdling the canes of either soft or hard wood plants. Guards against loss of labels. Absolutely waterproof. Will not wilt in hot weather.

#### Plain or varieties Imprinted permanently

Add \$2.00 to imprinted prices if imprinting is desired on both sides. Trade-marks billed at cost. Photos or black-and-white drawings must accompany trade-mark orders. Parcel-post shipment up to 20 lbs. Over 20 lbs., least expensive way possible—unless otherwise specified. All shipments F.O.B. DAYTONA BEACH, FLA.



Available in 5 fade-proof colors: RED, GREEN, ORANGE, YELLOW, WHITE.

No.	Size	Per 1000	Imprinted Per 1000	Weight
No. 25 (1/2x5 ins.)				
1000 to 4000		\$5.50	\$7.00	
5000 to 9000		4.75	6.00	1/4 LBS.
10,000 to 49,000		4.00	4.75	
50,000 to 99,000		3.25	4.00	PER 1000
100,000 or more		2.50	3.25	
No. 87-87C (5x7 ins.)				
1000 to 4000		7.50	9.00	
5000 to 9000		6.50	7.75	2 1/4 LBS.
10,000 to 49,000		5.50	6.25	
50,000 to 99,000		4.75	5.50	PER 1000
100,000 or more		4.00	4.75	
No. 47-47C (3 1/2x7 ins.)				
1000 to 4000		8.50	10.00	
5000 to 9000		7.50	8.75	3 LBS.
10,000 to 49,000		7.00	7.75	
50,000 to 99,000		6.25	7.00	PER 1000
100,000 or more		5.50	6.25	

ECONOMY LABEL SALES CO., INC.  
P. O. Box 350, Daytona Beach, Fla.

ENCLOSED FIND \$..... FOR WHICH YOU MAY SHIP THE FOLLOWING ITEMS CHECKED BELOW BY ..... EXPRESS; ..... PARCEL POST; ..... MOTOR FREIGHT; ..... BEST WAY.

YOUR NAME (print) .....  
CITY ..... ZONE ..... STATE .....  
STREET NO. ..... R.F.D. ..... BOX .....  
SHIPPING POINT ..... COUNTY .....  
(if different from post office)

PLASTIC "SLIP-ON" LABELS

SIZE	QUANTITY	IMPRINT NAME & ADDRESS	IMPRINT VARIETIES	IMPRINT TRADE-MARK	PRICE
NO. 25					
NO. 87					
NO. 87C					
NO. 47					
NO. 47C					

IMPRINT MY "SLIP-ON" LABELS AS FOLLOWS:.....

\* A VARIETY LIST IS ENCLOSED.....(yes or no) Made in U. S. A.

Business," by Larry Livingston, Cecilton, Md.

3 p. m.—Adjournment.

#### VIRGINIA SHORT COURSE

The fifth annual landscape short course sponsored by the Virginia agricultural extension service of the Virginia Polytechnic Institute, Blacksburg, in cooperation with the landscape division of the Virginia department of highways, will be held at Blacksburg May 5 to 7. The course is arranged especially for those engaged in the design, planting and maintenance of private homes, parks, golf courses and roadsides.

The opening session Tuesday afternoon, May 5, will be devoted to landscape aspects of interest to park superintendents and groundkeepers. Staff members of V. P. I. will conduct this session, which will include equipment demonstrations.

Wednesday, Frank C. Edminster, soil conservation service, will speak on "Soil Conservation and Highways," and T. M. Crowell, a Virginia nurseryman, will discuss "Propagation of Plants." Other topics presented during the day will be "Plant Diseases," by Dr. R. H. Gruenhagen, V. P. I.; "Control of Insects," by C. R. Willey, state entomologist, Richmond, and "Maintenance of Trees and Shrubs," by Alden Eaton, superintendent of grounds, Colonial Williamsburg, Inc.

A tour of experimental field plots of the Virginia agricultural experiment station is scheduled for the final day of the course, along with a visit to the V. P. I. arboretum.

This course is one of three being planned by V. P. I. for the spring and summer months. In addition to holding the May landscape course, the institute will cooperate with the Virginia Federation of Garden Clubs in presenting a series of four landscape study courses beginning April 6 to 8 at Richmond, and a garden lovers' short course will be given August 3 to 7 by the V. P. I. horticulture department.

#### OAKLAND SHOW PLANS

Eight acres of indoor and outdoor exhibits, including spectacular floral effects, practical modern gardens, greenhouse materials, the latest varieties of hybrid roses and theme gardens for modern living and gigantic shopping centers, will highlight the 27th annual California spring garden and home show, which will be held April 18 to 26 at the Oakland Exhibition building, Oakland. The designer, Howard Gilkey, has used the theme, "Northern Lights and

# Cartwright Nursery Co.

Phone: UL 3-2352 Highway 72-57, 10 miles east of Memphis Collierville, Tenn.

TERMS: Net, 30 days. Interest at 6% on past-due accounts. 25 plants at the 100 rate.

SHIPPING: Stock sold F.O.B. Collierville, Tenn. We can make pool shipments to most points in the midwest and will be glad to arrange this for you.

## AMERICAN ARBORVITAE VARIETIES

(Thuja occidentalis)		Per 10	Per 100
Dark Green American Arborvitae			
30 to 36 ins.	\$2.25	\$2.00	
3 to 4 ft.	2.75	2.50	
4 to 5 ft.	3.50	3.00	
Compacta erecta globosa Arborvitae			
24 to 30 ins.	2.50	2.25	
30 to 36 ins.	3.00	2.60	
Globosa (American Globe) Arborvitae			
12 to 15 ins.	1.45	1.25	
15 to 18 ins.	1.80	1.60	
Pyramidal American Arborvitae			
24 to 30 ins.	1.80	1.65	
30 to 36 ins.	2.50	2.25	
3 to 4 ft.	3.00	2.75	

## ORIENTAL ARBORVITAE VARIETIES

(Thuja orientalis)		Per 10	Per 100
Baker Arborvitae			
2 to 3 ft.	\$1.40	\$1.35	
Berkman Arborvitae			
15 to 18 ins.	1.40	1.20	
Blue Cone Arborvitae			
24 to 30 ins.	1.45	1.25	
30 to 36 ins.	1.70	1.50	
Bonita Arborvitae			
12 to 15 ins.	1.00	.90	
15 to 18 ins.	1.35	1.20	
18 to 24 ins.	1.65	1.50	
Excelsa Arborvitae			
24 to 30 ins.	1.40	1.25	
30 to 36 ins.	1.70	1.50	
Newarki Arborvitae			
24 to 30 ins.	1.40	1.25	
30 to 36 ins.	1.70	1.50	

## JUNIPERS, SPREADING VARIETIES

	Per 10	Per 100		Per 10	Per 100
Andorra Juniper, green					
15 to 18 ins.	\$1.60	\$1.40			
18 to 24 ins.	1.90	1.75			
24 to 30 ins.	2.50	2.25			
Pfitzer Juniper					
12 to 15 ins.	1.25	1.10			
15 to 18 ins.	1.65	1.50			
Pfitzer Blue Juniper					
24 to 30 ins.	2.75	2.50			
Compact Pfitzer Juniper					
12 to 15 ins.	1.25	1.10			
15 to 18 ins.	1.65	1.50			
Pfitzer Nano Juniper					
12 to 16 ins.	1.25	1.10			
15 to 18 ins.	1.65	1.50			
Savin Juniper					
12 to 15 ins.	1.00	.90			
15 to 18 ins.	1.35	1.20			
Von Ehron Juniper					
15 to 18 ins.	1.35	1.20			
Repandens Juniper					
(Virginiana repandens), dark green, good winter color					
12 to 15 ins.	1.00	.90			
15 to 18 ins.	1.35	1.20			

## JUNIPERS, UPRIGHT VARIETIES

	Per 10	Per 100		Per 10	Per 100
Juniperus virginiana glauca					
3 to 4 ft.	\$3.75	\$3.50			
Juniperus virginiana canescens					
3 to 4 ft.	3.75	3.50			
4 to 5 ft.	4.75	4.50			
Fastigiata Juniper					
24 to 30 ins.	1.10	1.00			
30 to 36 ins.	1.40	1.25			
3 to 4 ft.	1.65	1.50			
Greek Juniper					
(Juniperus excelsa stricta)					
15 to 18 ins.	\$1.35	\$1.20			
18 to 24 ins.	1.65	1.50			
Hetz glauca Juniper, sheared pyramids					
24 to 30 ins.	2.25	2.00			
30 to 36 ins.	3.00	2.75			
3 to 4 ft.	3.75	3.50			
Von Ehron Juniper, sheared pyramids					
3 to 4 ft.	3.75	3.50			

## BROAD-LEAVED EVERGREENS

	Per 10	Per 100		Per 10	Per 100
Ilex opaca howardii					
2 to 3 ft.	\$2.25	\$2.00			
3 to 4 ft.	3.25	3.00			
4 to 5 ft.	4.25	4.00			
5 to 6 ft.	5.50	5.00			
Ilex opaca Hume No. 2					
3 to 4 ft.	3.25	3.00			
4 to 5 ft.	4.25	4.00			
5 to 6 ft.	5.50	5.00			
Ilex vomitoria, small-leaved, sheared					
18 to 24 ins.	1.15	1.00			
24 to 30 ins.	1.65	1.50			
30 to 36 ins.	2.25	2.00			
3 to 4 ft.	2.75	2.50			
Ilex vomitoria Pride of Houston					
18 to 24 ins.	1.15	1.00			
24 to 30 ins.	1.65	1.50			
30 to 36 ins.	2.25	2.00			
Ilex vomitoria nana (Dwarf Yaupon)					
12 to 15 ins.	1.50	1.25			
15 to 18 ins.	2.00	1.75			
Jasmine, Sordidum					
15 to 18 ins.	1.15	1.00			
18 to 24 ins.	1.40	1.25			
24 to 30 ins.	1.70	1.50			
30 to 36 ins.	2.00	1.75			
Ligustrum lucidum (Black Wax)					
24 to 30 ins.	1.25	1.10			
30 to 36 ins.	1.50	1.35			
3 to 4 ft.	1.90	1.65			
Ligustrum lucidum Suwannee River					
15 to 18 ins.	1.50	1.25			
18 to 24 ins.	2.25	2.00			
24 to 30 ins.	2.75	2.50			
Carolina Cherry Laurel					
2 to 3 ft.	1.50	1.25			
3 to 4 ft.	1.75	1.50			
4 to 5 ft.	2.75	2.50			
5 to 6 ft.	3.75	3.50			
Laurel, zabelii					
(Strap-leaved Laurel)					
15 to 18 ins.	1.40	1.25			
18 to 24 ins.	2.00	1.75			
Magnolia nigra					
(Purple Magnolia)					
2 to 3 ft.	\$1.75	\$1.50			
Magnolia soulangeana					
(Pink Magnolia)					
2 to 3 ft.	2.25	2.00			
3 to 4 ft.	3.00	2.75			
4 to 5 ft.	3.75	3.50			
5 to 6 ft.	5.00	4.50			

## DECIDUOUS TREES

	Per 10	Per 100
Magnolia nigra		
(Purple Magnolia)		
2 to 3 ft.	\$1.75	\$1.50
Laurel, zabelii		
(Strap-leaved Laurel)		
15 to 18 ins.	1.40	1.25
18 to 24 ins.	2.00	1.75

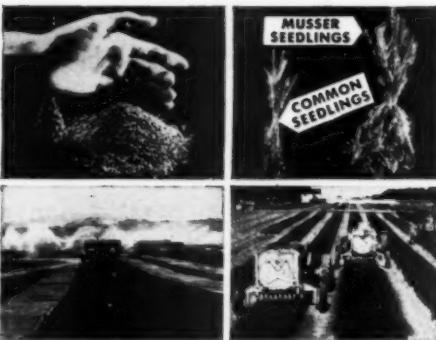
**\*20  
MILLION  
TREES  
A YEAR!**

**\*NOW OVER 35 MILLION!**

**MUSSER TREES  
BUILD  
SATISFIED CUSTOMERS —**

*Because of—Selected Seed, Good Hereditary Characteristics, Scientific Methods of Planting and Propagation, Heavy Roots, Sturdy Tops and Rapid Growth—Messer Trees grow and thrive where others may fail to survive.*

**MUSSER TREES**  
**Grow Best!**



**Good Tree Stock Pays Dividends**

Messer Forests takes pride in supplying vigorous, high-quality nursery stock. To keep abreast with increasing costs of production the most modern equipment is used. Experienced personnel are employed, many with over 20 years' service. . . . Our production has increased year after year to keep pace with the ever-increasing demand for Messer trees.

**OUR TREMENDOUS VOLUME ENABLES US TO SAVE YOU MONEY**

	Per 100	Per 1000		Per 100	Per 1000
<b>• SPECIAL STRAIN SCOTCH PINE</b>			<b>• JAPANESE YEW</b>		
Very best Christmas tree strain. Grown from seed collected by our own men from selected parent trees. Exceptionally healthy, sturdy, straight-stemmed. We have all other best strains Scotch Pine.			<i>Toxus cuspidata capitata—upright pyramidal</i>		
2-yr., S. 3 to 5 ins. .... \$ 6.00 \$ 30.00			2-yr., S. 3 to 6 ins. .... \$20.00 \$150.00		
3-yr., S. 3 to 16 ins. .... 9.00 45.00			2-yr., S. 4 to 8 ins. .... 30.00 200.00		
4-yr., T. 3 to 12 ins. .... 20.00 100.00			<i>Toxus cuspidata—spreading</i>		
<b>• MUGHO PINE</b>	7.00	35.00	1-yr., T. 5 to 6 ins. .... 20.00 150.00		
3-yr., S. 3 to 5 ins. .... 7.00 35.00			2-yr., T. 6 to 8 ins. .... 30.00 250.00		
5-yr., T. 5 to 7 ins. .... 20.00 ....			3-yr., T. 8 to 12 ins. .... 40.00 350.00		
<b>• AUSTRIAN PINE</b>	5.00	25.00	<i>Toxus hicksii—upright</i>		
2-yr., S. 3 to 6 ins. .... 5.00 25.00			1-yr., T. 5 to 7 ins. .... 25.00 175.00		
3-yr., S. 3 to 12 ins. .... 9.00 45.00			2-yr., T. 8 to 10 ins. .... 40.00 300.00		
<b>• BLACK HILLS SPRUCE</b>	7.00	35.00	<i>Toxus brownii—upright</i>		
3-yr., S. 5 to 10 ins. .... 7.00 35.00			1-yr., T. 4 to 6 ins. .... 25.00 175.00		
4-yr., S. 8 to 12 ins. .... 10.00 50.00			2-yr., T. 6 to 8 ins. .... 40.00 ....		
5-yr., T. 8 to 12 ins. .... 24.00 120.00			<i>Toxus cuspidata capitata—spreading</i>		
<b>• NORWAY SPRUCE—Fast-growing</b>	7.00	35.00	From side cuttings.		
2-yr., S. 5 to 10 ins. .... 7.00 35.00			3-yr., T. 8 to 12 ins. .... 40.00 300.00		
3-yr., S. 10 to 14 ins. .... 10.00 50.00			<i>(Heavy Liner)</i>		
3-yr., T. 8 to 12 ins. .... 15.00 75.00			<i>Toxus intermedia—spreading</i>		
5-yr., T. 12 to 18 ins. .... 35.00 ....			1-yr., T. 4 to 6 ins. .... 25.00 175.00		
<b>• WHITE SPRUCE</b>	9.00	45.00	3-yr., T. 8 to 12 ins. .... 40.00 ....		
3-yr., T. 10 to 15 ins. .... 20.00 100.00			<i>(Heavy Liner)</i>		
<b>• COLORADO BLUE SPRUCE</b>	9.00	45.00	<i>Toxus andersonii—spreading</i>		
3-yr., S. 4 to 8 ins. .... 9.00 45.00			1-yr., T. 5 to 7 ins. .... 20.00 150.00		
4-yr., T. 4 to 8 ins. .... 18.00 90.00			<b>• JUNIPER HETZI GLAUCA—Blue Pfitzer</b>		
<b>• DOUGLAS FIR</b>	7.00	35.00	1-yr., T. 5 to 7 ins. .... 25.00 200.00		
2-yr., S. 5 to 10 ins. .... 7.00 35.00			<b>• GLOBE ARBORVITAE</b>		
3-yr., S. 8 to 12 ins. .... 11.00 55.00			<i>Woodward—dark green</i>		
<b>• AMERICAN ARBORVITAE</b>	8.00	40.00	1-yr., T. 4 to 6 ins. .... 30.00 250.00		
2-yr., S. 8 to 12 ins. .... 8.00 40.00			<i>Hovey's—green</i>		
<b>• CANADIAN HEMLOCK</b>	10.00	50.00	1-yr., T. 4 to 6 ins. .... 25.00 200.00		
2-yr., S. 3 to 6 ins. .... 10.00 50.00			<b>• PYRAMIDAL ARBORVITAE—Compacta</b>		
3-yr., T. 3 to 8 ins. .... 25.00 ....			1-yr., T. 5 to 7 ins. .... 25.00 200.00		
5-yr., T. 8 to 14 ins. .... 35.00 ....			<b>• JAPANESE HOLLY</b>		
<b>• CONCOLOR FIR</b>	9.00	45.00	<i>Ilex rotundifolia</i>		
2-yr., S. 3 to 6 ins. .... 9.00 45.00			1-yr., T. 5 to 6 ins. .... 20.00		
— Many Other Evergreen Items—Rhododendrons and Azaleas			*1-yr., T. 5 to 6 ins. .... 20.00		
— All stock is carefully graded and packed —			*2-yr., T. 12-in. spread. \$1.75 each		
No charge for packing and boxing. Our cold storage permits late shipment.			(Sold in lots of 5 or more)		
SEND FOR COMPLETE CATALOG and WHOLESALE PLANTING			<b>• AMERICAN HOLLY—Ilex opaca</b>		
LIST — also famous CHRISTMAS TREE GROWERS' GUIDE.			1-yr., T. 10 ins. and up... 50.00 400.00		
(Sexes separate)			(Sexes separate)		
<b>• WHITE DOGWOOD</b>			<b>• SOUTHERN HEADQUARTERS</b>		
Seedlings, 12 to 18 ins. .... 16.00 80.00			The new Robert Myer hotel at Jacksonville, Fla., has been selected as the headquarters for the annual convention of the Southern Nurserymen's Association. The meeting will be held August 23 to 25.		

**ORDER NOW!**

Write or Phone:  
HOPKINS 5-5686

**MUSSER FORESTS**

Many Other Evergreen Items—Rhododendrons and Azaleas  
— All stock is carefully graded and packed —

No charge for packing and boxing. Our cold storage permits late shipment.

SEND FOR COMPLETE CATALOG and WHOLESALE PLANTING

LIST — also famous CHRISTMAS TREE GROWERS' GUIDE.

Box 16-D

INDIANA, PENNA.

"Southern Shadows," for a spectacle emphasizing the new states of Alaska and Hawaii. Cash prizes up to nearly \$50,000 and many plaques, trophies and ribbons will be awarded.

**CALIFORNIA COURSE**

The California Association of Nurserymen and the department of ornamental horticulture, California State Polytechnic College, San Luis Obispo, will hold the 11th annual nurserymen's refresher course June 3 and 4. The course will be given at the home campus of Cal Poly.

**MEET IN NEW MEXICO**

The fifth joint convention of the Plains Nurserymen's Association and the New Mexico Association of Nurserymen will be held at Roswell, N. M., June 21 to 23. The headquarters for the meeting will be the Holiday Inn motel, according to Bob Kershner, vice-president of the New Mexico group.

**MISSISSIPPI DATES**

June 28 to 30 are the dates set for the Mississippi Florists' and Nurserymen's Association convention. The group will meet at the Eola hotel, Natchez, Miss., according to C. O. Box, secretary-treasurer of the association.

**OHIO SUMMER MEETING**

Members of Ohio Nurserymen's Association, Inc., will hold their summer meeting August 11 to 13 at Lake Erie College, Painesville. The Lake County Nurserymen's Association, host for the meeting, has planned an enjoyable program that will afford the nurserymen an opportunity to view the college's campus landscaping and will feature recreational activities such as a golf tournament, fishing, swimming and guided hikes. Accommodations will be available at the college dormitories or at nearby motels.

**SOUTHERN HEADQUARTERS**

The new Robert Myer hotel at Jacksonville, Fla., has been selected as the headquarters for the annual convention of the Southern Nurserymen's Association. The meeting will be held August 23 to 25.

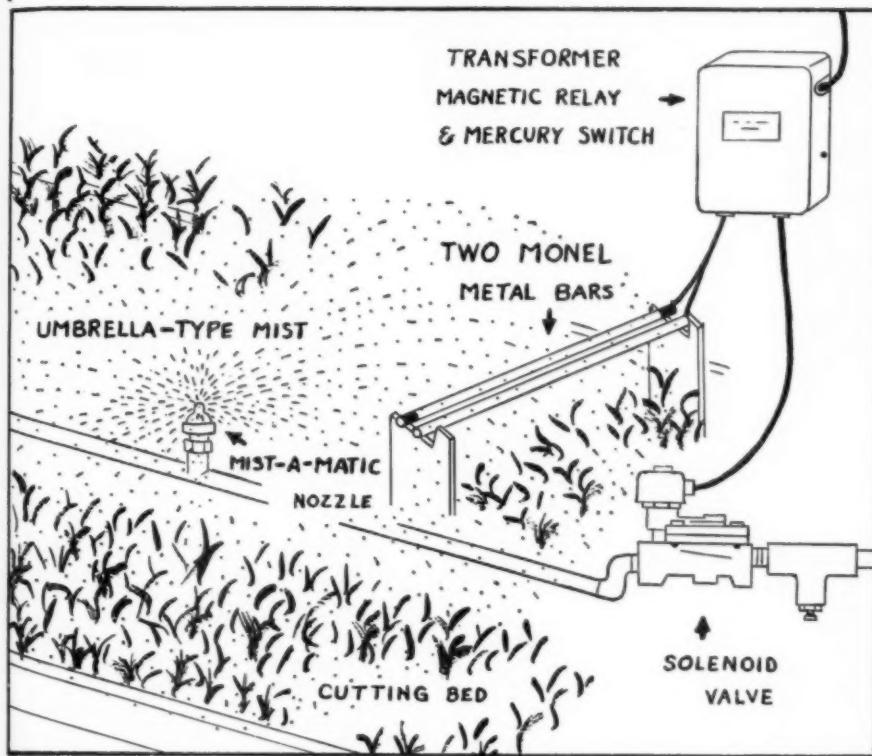
JOINING the staff of the University of Missouri, Columbia, Mo., in June, is Professor Villard Summers, department of horticulture, Washington State College, Pullman, Wash.

# Mist-A-Matic® NEEDS

(Patent Pending)

**A Practical Mist Propagation System  
That's Priced Right.**

**NO** **CLOCKS to Set  
Electronic Tubes  
Adjusting Knobs**



The secret of success and simplicity of the system is shown in the sketch. Two parallel, spaced Monel metal bars are electrically connected to the magnetic relay transformer and mercury switch. These bars are placed over the cuttings and under the mist umbrella. When enough water accumulates between the bars to make an electrical contact, the mag-

### THE PROBLEM

To control misting cycle according to the weather conditions.

Too much water promotes disease and wastes money.

Too little water causes leaves to wilt and failure to root.

Control of misting cycle should depend on rate of evaporation, which can vary with any change in weather.

Any successful system should be simple and dependable without the necessity of adjusting timing devices.

netic relay switch closes the solenoid valve and turns off the mist. When the water evaporates, contact is broken, the relay opens the valve and misting starts. That's the whole story. The sensing units are large enough to accurately meet plant demands. This is the simplest, most positive answer to controlling the cycle of misting.

### HANDY ORDER FORM

( Check Items Wanted

<input type="checkbox"/> Complete MIST-A-MATIC Control System with Solenoid Valve and Strainer.....	\$72.00
<input type="checkbox"/> Complete MIST-A-MATIC Control System without Solenoid Valve and Strainer.....	\$46.00
<input type="checkbox"/> MIST-A-MATIC Nozzle 1/4-in. Pipe Thread (one needed every 4 ft.).....	\$2.95 ea.
How Many? <input type="checkbox"/> Male Thread <input type="checkbox"/> Female Thread ( <input checked="" type="checkbox"/> Check which thread).	
<input type="checkbox"/> MIST-A-MATIC Slip-On Nozzle for 1/2-in. copper tubing — How Many? .....	\$3.45 ea.

Payment Enclosed Totaling \$ ..... Ship Via Best Way ..... Other .....

If payment does not accompany order and if you have not established credit with us, we will ship C.O.D.

Ship above order to (Your Name, please print).....

(Address, please print).....

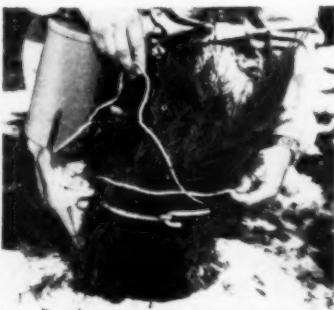
## E. C. GEIGER

P. O. BOX 270  
NORTH WALES, PA.

# TIME with NEW HOOP TWINGER

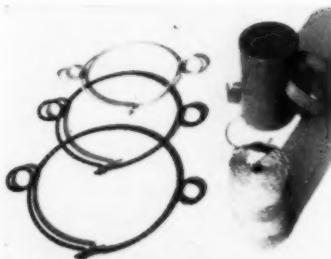


Hook hoop under foliage.



Pull twine from holder and tie.

# SAVE and



- Cuts foliage tying time in half.
- Saves time and twine when belly-tying ball.
- 1000 ft. of twine in a spool.
- 4 hoops—small, medium, large and extra large.

# TWINE with NEW TWINE HOLDER



Pull up handles, pulls in branches.



Cut twine and finish.

Write for price list.

## NURSERY EQUIPMENT CO. Maple Plain, Minn.

### MAST NURSERY CONTINUES

The Mast Nursery, Davenport, Ia., will continue operations under a franchise lease to Claire A. McCrory. According to Mrs. William H. Mast, owner of the property and the firm name since the death of her husband last summer, the operation of the retail business is not in partnership, and she has no legal obligation for Mr. McCrory's commitments.

Mr. McCrory has been working with the nursery since he received his B.S. degree in forestry from Iowa State College, Ames, in 1950. He started his training at Iowa State

after two years in the signal corps. He and his wife, Gwen, have two sons, Keith and Kim.

### Founded in 1858

The firm's new nursery shop at 3714 Brady street, Davenport, was started in the fall of 1957 and was completed in September, 1958, the year that marked the 100th anniversary of the Davenport Nursery. Mr. and Mrs. Mast purchased the nursery from Nichols & Lorton in 1913. Although the public has come to know the enterprise as the Mast Nursery during the past 45 years, the name Davenport Nursery is retained as the firm's registered trade mark.

### SIEBENTHALER ADDITION

The grand opening of a new garden center built by the Siebenthaler Co., Dayton, O., will be held April 4 and 5. The establishment is located south of Dayton on Far Hills, at Whipp road. This is the firm's second garden center; the first was opened at Dayton in 1954.

STARTING a nursery business to be known as Cully's Nursery is Earl Cully, R. R. No. 5, Jacksonville, Ill.

HERRING NURSERIES, Hanover, Pa., will occupy space in a proposed Clearview Shopping Center.

# EVERGREEN SEEDLINGS

## CANALE'S FOREST NURSERY

Shelby, Pa.

Let Our Quality Be Your Guide to Better Seedlings

**Scotch Pine**

	Per 100	Per 1000
For the very best Christmas tree.		
Best strains. Healthy, sturdy, straight-		
stemmed specimens with good color.		
2-yr., 2 to 4 ins.	\$ 2.00	\$10.00
4 to 8 ins.	4.00	20.00
3-yr., 8 to 14 ins.	4.00	20.00
10 to 18 ins.	6.00	28.00

Special low prices on complete beds of 3-yr.  
**Scotch Pine.**

**French Scotch Pine**

	3.00	15.00
2-yr., 1 to 3 ins.	3.00	15.00
3 to 7 ins.	5.00	25.00

**Spanish Scotch Pine**

short, dark green needles		
2-yr., 1 to 3 ins.	3.00	15.00
3 to 7 ins.	5.00	25.00

**Riga Scotch Pine**

2-yr., 2 to 4 ins.	2.00	10.00
4 to 8 ins.	4.00	20.00
3-yr., 7 to 14 ins.	4.00	20.00

**Scotch Pine, transplants**

(2-2), 5 to 10 ins.	10.00	50.00
10 to 15 ins.	15.00	75.00
15 to 18 ins.	25.00	...

The above-listed Scotch Pine is top-quality stock. Our low price on this stock is because we have an excess over our usual needs. Take advantage of these low prices. We invite inspection and will match quality and price with seedlings from any source. Send us your order now and save at these low prices. Special rates on complete beds. We invite large buyers and dealers to inspect and price our stock. We know we can save you money on your planting needs now and in the future.

**Austrian Pine**

Christmas tree, ornamental and timber. Select seed from Austria.		
2-yr., 1 to 3 ins.	2.50	12.50
3 to 6 ins.	4.00	20.00

**Red Pine**

Christmas tree, ornamental and timber. Certified seed.		
2-yr., 2 to 4 ins.	3.00	15.00
3-yr., 5 to 10 ins.	5.00	25.00

**White Pine**

Timber, Christmas tree, ornamental and windbreak.		
1 to 3 ins.	2.00	10.00

**Mugho Pine**

Ornamental hedges, landscaping. True dwarf, low growing, compact.		
3-yr., 1 to 3 ins.	7.00	35.00
4-yr., 3 to 6 ins., 25c each		

6 to 12 ins., 50c each.

**Ponderosa Pine**

2-yr., 2 to 6 ins.	4.00	20.00
--------------------	------	-------

May we advise booking your order early—NOW—and avoid disappointment. Some items are in limited supply. May we therefore advise you to list secondary choices.

**TERMS**

This list cancels all former quotations. Prices subject to change without notice. Prices are F.O.B. Shelby, Pa. We do not extend credit. Our low prices are for cash.

All orders to be accepted must be accompanied by a deposit of at least 25%, balance prior to shipping or order will be sent C.O.D. There is a 50c packing charge on seedling orders less than 1000. Orders over 1000 will be packed free. Send want list for special quotation on large orders.

We are equipped to grow many more trees than we do grow at present. We can contract to grow for you your future needs of evergreen stock. If interested, inquire. We also supply other nurseries and many mail-order outlets with our seedlings and transplants. If interested, inquire.

Order early. Earliest orders given preference for earliest shipping dates.

OUR AIM—The best, bar none, at the most reasonable price.

MILLIONS OF QUALITY SEEDLINGS

**CANALE'S FOREST NURSERY**  
Phone: Elderton, Fleetwood 4-2461

**Shelby, Pa.**  
Night, Fleetwood, 4-3505

**Douglas Fir**

The second best selling Christmas tree in the country, ornamental and timber. Start a planting this year. Very much in demand and brings large prices.

Per 100 Per 1000

Glauca		
3-yr., 1 to 3 ins.	\$ 3.00	\$15.00
3 to 8 ins.	7.00	35.00

**Concolor Fir**

Excellent ornamental and Christmas tree. Hardy. Holds needles best of any short-needed tree. 2-yr., 3 to 6 ins.

9.00 45.00

**White Spruce**

Christmas tree, ornamental and timber. 2-yr., 2 to 4 ins. 2.50 12.50 (2-3), 3 to 5 ins. 10.00 50.00 8 to 12 ins. 15.00 75.00 12 to 15 ins. 25.00 ...

**Black Hills White Spruce**

(*Picea glauca densata*) 2-yr., 2 to 4 ins. 4.00 20.00 (2-3), 3 to 5 ins. 10.00 50.00 5 to 10 ins. 15.00 75.00

We have had many requests in the past for small seedlings that a person may secure at a low price and then put these in transplant beds for a few years prior to field planting. For these people and for others who have the same idea we are now listing this small size at a very low figure. We do not recommend these for direct field planting except in areas where they have proved themselves. The size of the following seedlings is 1 to 2-in. No discount. Net price.

Scotch Pine ..... 7.50

Blue Spruce ..... 8.00

**Colorado Blue Spruce** Very best for ornamental, Christmas tree and landscape. Seed is from select trees of good color—the very best money can buy.

3-yr., 2 to 4 ins.	2.50	12.50
3-yr., 4 to 8 ins.	7.00	35.00
4-yr., 6 to 12 ins.	12.00	60.00
(2-2), 3 to 6 ins.	10.00	50.00
6 to 10 ins.	17.00	85.00
8 to 12 ins.	30.00	...

**Norway Spruce**

Christmas tree, ornamental and timber. Fast-growing variety.

2-yr., 2 to 4 ins.	2.50	12.50
4 to 8 ins.	4.00	20.00
(2-2), 5 to 8 ins.	10.00	50.00
8 to 12 ins.	15.00	75.00
10 to 16 ins.	25.00	...

**Black Spruce (*Picea mariana*)**

2-yr., 2 to 4 ins. 2.50 12.50

**Arborvitae**

Ornamental, landscape and hedges. 2-yr., 2 to 5 ins. 4.00 20.00

## QUALITY LINING-OUT STOCK

### TREE AND SHRUB SEEDLINGS—LINERS

500 at the 1000 rate.			
<b>ARBORVITAE, CHINESE</b>	Per 100	Per 1000	
( <i>Thuya orientalis</i> )			
3000 4 to 6 ins. ....	3.50	30.00	
2000 6 to 9 ins. ....	5.50	50.00	
5000 9 to 12 ins. ....	8.50	70.00	
1000 12 to 18 ins. ....	12.00	100.00	
<b>GREEN ASH</b>			
5000 6 to 12 ins. ....	1.40	12.00	
<b>BUFFALO BERRY</b>			
( <i>Shepherdia argentea</i> )			
2000 6 to 9 ins. ....	3.50	30.00	
1300 9 to 12 ins. ....	4.00	35.00	
1800 12 to 18 ins. ....	5.00	45.00	
2500 18 to 24 ins. ....	7.00	....	
<b>CATALPA, WESTERN</b>			
( <i>Catalpa speciosa</i> )			
2500 6 to 12 ins. ....	1.40	12.00	
2000 12 to 18 ins. ....	2.40	20.00	
1000 2 to 3 ft. ....	4.00	35.00	
<b>ELM, AMERICAN</b>			
4000 6 to 12 ins. ....	1.40	12.00	
2500 12 to 18 ins. ....	2.40	20.00	
2000 18 to 24 ins. ....	3.20	28.00	
1000 2 to 3 ft. ....	4.00	35.00	
<b>ELM, CHINESE</b>			
40,000 6 to 12 ins. ....	1.25	10.00	
20,000 12 to 18 ins. ....	2.25	18.00	
15,000 18 to 24 ins. ....	3.00	25.00	
2000 2 to 3 ft. ....	4.50	40.00	
<b>GOLDEN-RAIN TREE</b>			
( <i>Koelreuteria paniculata</i> )			
2500 4 to 6 ins. ....	4.00	35.00	
800 6 to 9 ins. ....	5.50	45.00	
3000 9 to 12 ins. ....	9.00	80.00	
6000 12 to 18 ins. ....	12.00	100.00	
3000 18 to 24 ins. ....	20.00	150.00	
3000 2 to 3 ft. ....	25.00	225.00	
<b>HACKBERRY</b> ( <i>Celtis occidentalis</i> )			
6500 6 to 12 ins. ....	1.80	15.00	
7000 12 to 18 ins. ....	2.90	25.00	
4000 18 to 24 ins. ....	4.30	40.00	
2000 2 to 3 ft. ....	7.00	60.00	
<b>HONEY LOCUST, THORNLESS</b>			
( <i>Gleditsia triacanthos</i> )			
20,000 6 to 12 ins. ....	1.50	12.00	
8000 12 to 18 ins. ....	2.60	22.00	
8000 18 to 24 ins. ....	4.50	35.00	
<b>HONEYSUCKLE, TATARIAN</b>			
( <i>Lonicera tatarica</i> )			
3000 6 to 9 ins. ....	3.20	28.00	
3000 9 to 12 ins. ....	4.00	35.00	
4000 12 to 18 ins. ....	5.00	45.00	
1000 18 to 24 ins. ....	7.00	65.00	
<b>LILAC, COMMON</b>			
( <i>Syringa vulgaris</i> ), 1-yr. S.			
3000 4 to 6 ins. ....	2.50	20.00	
800 9 to 12 ins. ....	5.00	45.00	
500 12 to 18 ins. ....	7.00	65.00	
500 18 to 24 ins. ....	12.50	100.00	
120 2 to 3 ft. ....	20.00	....	
<b>LOCUST, BLACK</b>			
( <i>Robinia pseudoacacia</i> )			
6500 6 to 12 ins. ....	1.40	12.00	
10,000 12 to 18 ins. ....	2.40	20.00	
15,000 18 to 24 ins. ....	4.00	35.00	
15,000 2 to 3 ft. ....	4.00	35.00	
10,000 3 to 4 ft. ....	3.50	30.00	
600 4 to 5 ft. ....	6.50	60.00	
<b>MAPLE, SILVER</b>			
( <i>Acer saccharinum</i> )			
2000 6 to 12 ins. ....	2.40	20.00	
1000 12 to 18 ins. ....	3.00	28.00	
800 18 to 24 ins. ....	4.50	40.00	
700 2 to 3 ft. ....	6.50	60.00	
<b>MIMOSA (SILK TREE)</b>			
( <i>Albizia julibrissin</i> )			
1200 6 to 12 ins. ....	3.50	25.00	
1000 12 to 18 ins. ....	4.00	35.00	
1000 18 to 24 ins. ....	6.00	50.00	
600 2 to 3 ft. ....	10.00	85.00	
130 3 to 4 ft. ....	20.00	....	
<b>MULBERRY, RUSSIAN</b>			
( <i>Morus nigra</i> )			
7800 6 to 12 ins. ....	1.40	12.00	
10,000 12 to 18 ins. ....	2.40	20.00	
8000 18 to 24 ins. ....	3.20	28.00	
5000 2 to 3 ft. ....	4.00	35.00	
<b>OAK, BUR</b> ( <i>Quercus macrocarpa</i> )			
200 4 to 6 ins. ....	4.00	....	
1000 6 to 9 ins. ....	3.50	....	
1000 9 to 12 ins. ....	7.00	65.00	
1250 12 to 18 ins. ....	8.50	80.00	
600 18 to 24 ins. ....	12.00	110.00	
200 2 to 3 ft. ....	20.00	....	
<b>OSAGE ORANGE</b>			
( <i>Maclura pomifera</i> )			
3000 6 to 12 ins. ....	1.40	12.00	
800 12 to 18 ins. ....	2.40	20.00	
300 18 to 24 ins. ....	3.20	28.00	
2900 2 to 3 ft. ....	4.00	35.00	

SEND FOR OUR COMPLETE LIST  
SHADE and ORNAMENTAL TREES—SHRUBS—VINES  
BROAD-LEAVED EVERGREENS, B&B—EVERGREENS, B&B  
CHRYSANTHEMUMS—HEMEROCALLIS—LAWN GRASSES

KANSAS LANDSCAPE AND NURSERY CO.

Phone: TAylor 7-0051

Salina, Kan.

### TREE AND SHRUB SEEDLINGS—LINERS (Cont'd.)

#### PAGODA TREE, JAPANESE

(*Sophora japonica*) Per 100 Per 1000

600 9 to 12 ins. .... \$10.00 \$85.00

700 12 to 18 ins. .... 14.00 125.00

200 18 to 24 ins. .... 20.00 ....

**PRUNUS AMERICANA**

(Native American Plum) Per 1000

1900 6 to 12 ins. .... 1.80 15.00

1900 12 to 18 ins. .... 2.90 25.00

2800 18 to 24 ins. .... 4.00 35.00

5000 2 to 3 ft. .... 4.50 40.00

2400 3 to 4 ft. .... 5.50 50.00

**PRUNUS BESSEYI** (Bush Cherry) Per 1000

4000 6 to 12 ins. .... 3.50 30.00

**PRUNUS TOMENTOSA** (Nanking Cherry) Per 1000

900 6 to 12 ins. .... 4.50 40.00

**RHUS CANADENSIS** (Fragrant Sumac or Quail Bush) Per 1000

5000 6 to 12 ins. .... 3.00 25.00

6500 12 to 18 ins. .... 4.00 35.00

4400 18 to 24 ins. .... 5.00 45.00

1000 2 to 3 ft. .... 6.50 60.00

**RHUS OTIOTINUS**—See Smokebush.

**ROSE, MULTIFLORA** (Thorny) Per 1000

6000 No. 1, 3/16 to 1/4-in. .... 1.00 35.00

6000 No. 2, 2/16 to 3/16-in. .... 2.00 25.00

**RUSSIAN OLIVE** (Elaeagnus angustifolia) Per 1000

7500 6 to 12 ins. .... 2.40 20.00

1500 12 to 18 ins. .... 3.50 30.00

26,000 18 to 24 ins. .... 3.00 45.00

8000 2 to 3 ft. .... 7.50 65.00

#### SMOKEBUSH or SMOKE TREE

(*Cotinus coggygria*) Per 1000

5500 6 to 9 ins. .... 6.00 50.00

1300 9 to 12 ins. .... 7.00 60.00

7000 12 to 18 ins. .... 10.00 85.00

**WALNUT, BLACK** (*Juglans nigra*)

These are 2-yr. seedlings, root-pruned, very shallow in spring, 1958. Roots are branched and not too long and heavy.

5000 6 to 12 ins. .... 4.00 35.00

9000 12 to 18 ins. .... 4.50 40.00

1500 18 to 24 ins. .... 7.00 60.00

#### MISCELLANEOUS POTTED LINERS

##### EUONYMUS PATENS (K-54)

##### MANHATTAN

NEW VARIETY ORIGINATED AT KANSAS STATE COLLEGE. Leaves are medium size, but are darker green and much glossier than the ordinary varieties. In our plantings this variety, K-54, seemed more resistant to Chlorosis and to attack from grasshoppers than any other variety. We feel sure that the MANHATTAN EUONYMUS is destined to be an outstanding broad-leaved evergreen. Per 1000

3100 2 1/4-in. pots. .... \$25.00 \$200.00

2 1/2-in. transplants. .... Per 100 Per 1000

1000 EUONYMUS PATENS, SMALL-LEAVED \$16.00 \$140.00

400 PYRACANTHA COCCINEA LALANDI .... 20.00 180.00

500 ALTHAEA BANNER .... 18.00 160.00

200 ALTHAEA ARDEN .... 18.00 160.00

300 HONEYSUCKLE MORROWI .... 18.00 160.00

1000 JUNIPERUS SABINA VONEHORN .... 22.00 200.00

#### SHADE AND ORNAMENTAL TREES

30 trees at the 100 rate.

Per 100 Per 1000

**REDBUD** (*Cercis canadensis*)

2-yr. transplants. .... \$4.00 \$35.00

300 18 to 24 ins. br. .... 5.50 50.00

600 2 to 3 ft. br. .... 8.00 75.00

200 3 to 4 ft. br. .... 12.50 110.00

100 4 to 6 ft. br. .... 19.00 175.00

100 6 to 7 ft. br. .... 25.00 225.00

60 7 to 8 ft. br. .... 30.00 ....

**WISCONSIN WEEPING WILLOW**

extra nice 5 ft. .... 9.00 85.00

100 5 to 6 ft. .... 10.00 90.00

200 6 to 8 ft. .... 14.00 125.00

90 6 to 9 ft. .... 15.50 150.00

**HACKBERRY** (*Celtis occidentalis*)

5 ft. .... 9.00 85.00

200 5 to 6 ft. .... 13.50 125.00

400 6 to 8 ft. .... 22.50 200.00

250 8 to 10 ft. .... 28.50 275.00

## COVER ILLUSTRATION

### Aesculus Carnea

One of the showiest flowering trees is Aesculus hippocastanum, the common horse chestnut, which was much used as a shade tree in Europe and the United States. While magnificent in bloom, this species has faults responsible for its present disrepute as a desirable tree for good service in urban areas; highly objectionable are the sidewalk and pavement-staining litter of fallen flowers and cast fruit and its inability to withstand drought and thrive in conditions governing the growth of city trees. However, the undeniable beauty of the horse chestnut in bloom goes far to offset its bad habits, and well-nourished specimens, planted where shedding



Aesculus Carnea Blooms

fruit and flowers pose no problem, are well worth while.

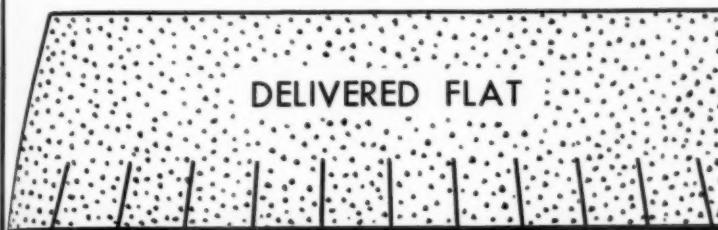
The hybrid, Aesculus hippocastanum x Aesculus pavia, the red horse chestnut, is a tree about the same size, but has foliage of darker color and finer texture than A. hippocastanum and in like situations seems to hold up better under drought and other adverse conditions. In this hybrid, the flowers are pink to red and borne in panicles about two thirds as long as those of the horse chestnut, but the nuisance of fallen fruit is still present and limits the use of this good-looking tree, although it should certainly be used wherever practical and in good taste.

Greatly improved, in that the problem of annoying fruit has been eliminated, is the variety Briotii; in this form of the hybrid mentioned the flowers are bright scarlet and the plant is fruitless. With this varie-

# NEW! Save Up To 50% with

# Thriftipots

(TAR PAPER PLANTING POTS)



## 5 Exclusive Money-Saving Advantages

✓ **LOWER INITIAL COST:** Compare these prices with any tar paper planting pots on the market.

Pot Size	Dimensions of Finished Pot	Price per 1000
1	4-in. diam., 4½ ins. high	\$18.50
2	4-in. diam., 5½ ins. high	22.50
3	5½-in. diam., 5½ ins. high	25.50
4	6½-in. diam., 6¼ ins. high	34.50
5	8-in. diam., 9½ ins. high	43.50

✓ **ASSEMBLE AS YOU NEED THEM:** Thriftipots are delivered flat. You assemble up to 3000 a day. Eliminate hot weather sticking and cost of separating as with nested type.

✓ **SAVE STORAGE SPACE:** 10,000 Thriftipots are stored in space occupied by 1000 nested pots! Thriftipots are shipped knocked-down . . . no unnecessary boxes to take up space and create fire hazards.

✓ **LOWER FREIGHT RATES:** Thriftipots cost 25 per cent less to ship than nested pots in boxes. Take same freight rate as building shingles.

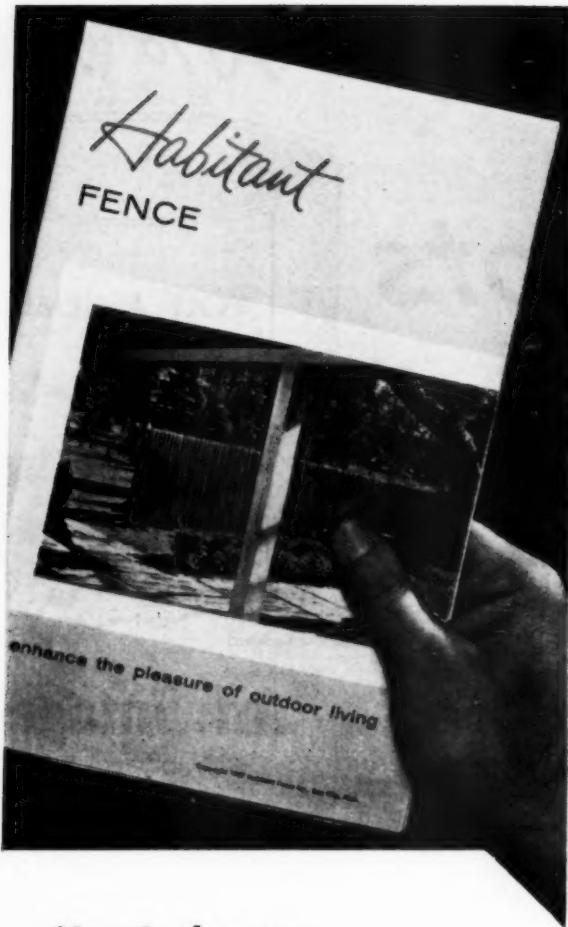
✓ **A BETTER POT:** Thriftipots have straight sides . . . put extra soil where it's needed at the bottom.

Thriftipots are sold exclusively by Old Orchard Gardens. Order NOW for the busy planting season ahead!

**Write today,  
enclosing \$1,  
for sample kit  
of 10 Thriftipots,  
two of each size.**

**OLD  
ORCHARD  
GARDENS**

**724 E. Big Bend Blvd. Webster Groves 19, Mo.**



**Here's the way  
to be sure you have  
a highly profitable year!**

Get all the facts, sir! This four-color brochure shows the complete line of Habitant Fence. It shows typical yard installations; exclusive construction features; and a host of reasons why Habitant is America's most respected and fastest selling wood fence.

*We have your copy reserved for you.*

**HABITANT FENCE, INC., Bay City 20, Michigan**

**HABITANT FENCE, INC., Bay City 20, Michigan**

**GENTLEMEN:**

I'm interested in learning more about the fast selling Habitant line. I understand this brochure will show me how to have a more profitable fence year — and that I do not have to stock or inventory Habitant in order to be a dealer.

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ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_

ty, one can use all the desirable features of the red horse chestnut, and it is now possible, by recommended spray treatment, to stay the tendency of *aulacis* foliage to desiccate and brown in late summer, weeks before most deciduous trees have lost their summer color.

J. G.

**DYEYSS SUCCEEDS LAUDEN**

The new president of Consolidated Nurseries, Inc., Tyler, Tex., rose firm, is W. D. Dyess, Tyler. He was elected by the corporation's board of directors March 3 to succeed the late C. J. (Jim) Lauden, former president, who was killed in an automobile accident February 13.

Mr. Dyess, 58, has been associated with Consolidated Nurseries, Inc., since its founding and was for 25 years Mr. Lauden's partner in two other Tyler enterprises, Southland Rose Nurseries and Ty-Tex Nurseries. Consolidated Nurseries, Inc., holds memberships in the American Association of Nurserymen, the Texas Association of Nurserymen and All-America Rose Selections, Inc. A resident of Tyler for the past 30 years, Mr. Dyess is married and has one son, the Rev. Odom Dyess.

**OPEN NEW GARDEN WORLD**

Opened March 20 was the third of the garden supermarkets in the Garden World chain on Long Island, N. Y. This newest Garden World, at 500 Franklin avenue, Franklin Square, L. I., is located on the site of the former Eberhard Nurseries and comprises several acres of hot-houses, nurseries and salesrooms. A special hothouse will feature rare and exotic plants from all over the world in all seasons of the year. The garden center is designed for complete self-service and will provide parking facilities for several hundred cars.

The March 20 opening coincided with the celebration of the eighth anniversary of the first Garden World at Flushing, L. I., and with the third anniversary of the second Garden World, at Syosset, L. I.

Harry Raben, president of Garden World, announces that the firm now intends to develop a series of garden supermarkets in Westchester county and in New Jersey.

**COMPLETING** recently a training course at Camp Lejeune, N. C., was Henry P. Leuthardt, Jr., United States Marine Corps, who had been associated formerly with his father in the Henry Leuthardt Nursery, Port Chester, N. Y.

**Your Nursery can profit from  
Cole's National Advertising of the  
unique, fast-selling **SUNBURST**\***



**COLE HELPS YOU MAKE MONEY** by selling your customers through sales-producing advertising and publicity in national home and gardening magazines. Nursery and garden store owners everywhere find these advertised brands easier and more profitable to sell. Be ready to meet the demand when your customers ask for them by name.

**COLE HELPS YOU SELL** with free newspaper mats and low-cost electroads for your local tie-in advertising. Full color, four page folders and other selling helps are supplied at cost. Ask for our sales aid bulletin.



**Spectacular SUNBURST**

(Plant Patent No. 1313)

The sensational, new two-color tree with brilliant yellow foliage on branch tips. It appears to burst with bloom all summer long.

**Stock these patented Cole specialities for 1959 profits**



**Cole's New IMPERIAL**  
(Plant Patent No. 1605)

The graceful, spreading, new Honeylocust that grows strong and straight without staking. A favorite of landscape men and tree experts.



**Cole's new SKYLINE**  
(Plant Patent No. 1619)

Distinctive, stately variety with strong trunk and shapely crown. Needs no staking. Dark green foliage has heavy, leathery texture.



**Cole's New MAJESTIC**  
(Plant Patent No. 1534)

A clean, graceful, symmetrically-branched tree. Produces a straight, sturdy trunk and compact crown without staking or special trimming.



**Cole's New TALLHEDGE**  
(Plant Patent No. 1388)

A thornless, glossy Columnar Buckthorn that grows to 12 feet. Ideal for tall, narrow, dense hedges or screens. Bears colorful berries.



**LARGE QUANTITIES  
360 VARIETIES  
WRITE FOR CATALOG**

**THE COLE NURSERY CO.**  
PAINESVILLE, OHIO

**OHIO'S LARGEST  
WHOLESALE NURSERY  
ESTABLISHED 1881**

## THIS BUSINESS OF OURS

*Reflections on the Problems of Nurserymen*

By E. Sam Hemming

### TREE LEGUMES

With the present popularity of several new honey locust varieties, both the importance and the uniqueness of members of the pea family, or leguminosae, are made prominent. Among the unusual characteristics of members of this family are large compound leaves, with mostly tiny leaflets; flowers usually borne in panicles, and nodule-bearing roots. This last-named characteristic makes the tree a good one for the lawn, for rather than being a soil robber the tree may tend to improve it. It is also a tree under which an attractive lawn can be grown.

The old honey locusts have two objectionable qualities: They bear large unsightly pods that hang on through the fall and winter and then clutter the lawn, and they have the sharp-branched spikelike thorns, which make them entirely unsuitable for lawn planting. (There is a honey locust that has pods suitable for stock feed, as they have a high sugar content.) The new trees are podless and thornless and have an open, graceful habit; one variety has yellow foliage when new growth is formed. All honey locusts have one handicap; they cannot be grown with much satisfaction in the south wherever the mimosa is grown because they are extremely susceptible to the mimosa webworm.

#### Webworm Bad for Mimosa

The mimosa was one of my favorite small trees until the advent of the webworm; the pest has discouraged planting the tree, although some success can be found by spraying, and the pest is no longer so rampant. The tree has the typical legume leaf, but the flower is more like a pink (or red) powder puff than the typical pea flower. This tree was found in almost every southern yard, but it is now less frequently planted. It makes a fine combination with boxwood, for its light shade benefits the latter; however, the roots rob the soil and starve the boxwood. The mimosa is also subject to a wilt, but I have not had experience with it, and there are resistant varieties.

Another locust belonging to this family—the black locust—is not much of a shade tree but has other

qualities that make it both interesting and valuable. It is common along the shores of the many inlets of the Chesapeake bay, where it grows down almost to the water's edge and helps hold the bank. The tree has the ability to die back to the ground and renew itself from shoots. It is pretty when in bloom, being covered with creamy-white pea-shaped flowers that are rather overpowering in fragrance. The local tradition is that soft crabs make their first appearance when locusts bloom. The black locust is useful in soil conservation, and the wood is almost rot proof.

Much more beautiful is *Cercis canadensis*, which also grows along the shore and in the woodlands of Maryland. Some years the flowers are so profuse that the masses of color will equal those of the dogwood. It is not often planted as a specimen, but it can be so grown, making a beautiful tree about 25 to 30 feet high with a 12-inch trunk.

### EVERGREENS

300 acres of choice Evergreens  
ready for immediate resale  
Write for list.

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ROCKY HILL, CONN.

### BLOODGOOD NURSERIES

Dept. American Nursery Co.  
Established 1790

#### ANNOUNCES

the moving of their nursery operation from Commack, L. I., N. Y., to Doylestown, Pa.

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Serving the Wholesale Trade

**GROWERS OF ORNAMENTAL LINERS**  
*Malus, Rhododendron, Ilex,  
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*Price list sent on request.*

**WOODFERN NURSERY**  
Neshanic Station, N. J.

Its only disadvantage is its coarse root, making digging sometimes difficult. Also the tree will sometimes die back from blight.

#### Yellowwood

I have never had much luck with yellowwood, *Cladrastis lutea*, which has pretty white flowers and is so named because the wood is yellow under the bark. It is probably uncommon because of its unwillingness to thrive.

Some members of this genus are extremely beautiful, including the laburnum with its handsome long chains of golden-yellow flowers. This is one of the most beautiful of all flowering trees, more so than the crab apples or cherries, but it is not a vigorous grower. The foliage is usually sparse and anemic, and the tree lacks vigorous root growth. Because of its great beauty, nurserymen and gardeners will continue to struggle with it.

*Sophora japonica* or pagoda tree has been mentioned often in this column. I think it, like the honey locust, is one of the trees of the future. The foliage is clean; the white flowers borne in summer are showy, and the height of around 30 feet is about right for modern homes.

Another member of the group, the

### FOR 57 YEARS

*Our business has been  
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**Rhododendrons**

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**Perennials, Roses**

**All Nursery Items**

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E. RUTHERFORD, N. J.

### NURSERY STOCK

Per 100 Per 1000

Red-leaved Barberry	
2-yr., S.	9 to 12 ins. \$ 6.50
2-yr., S.	12 to 18 ins. 10.00
Row run.	9 to 18 ins. 7.50
Cornus florida (White Dogwood)	
1-yr., S., budding size.	6.00
1-yr., S., below budding size	4.50
	35.00

Ask for list.

**BROUWER'S NURSERIES**  
Box 25  
New London, Conn.

### PACHYSANDRAS

Strong Rooted Cuttings Ready April 1.  
\$4.50 per 100; \$40.00 per 1000.  
\$37.50 per 1000, 5000 or over.  
Check with order. No C.O.D.

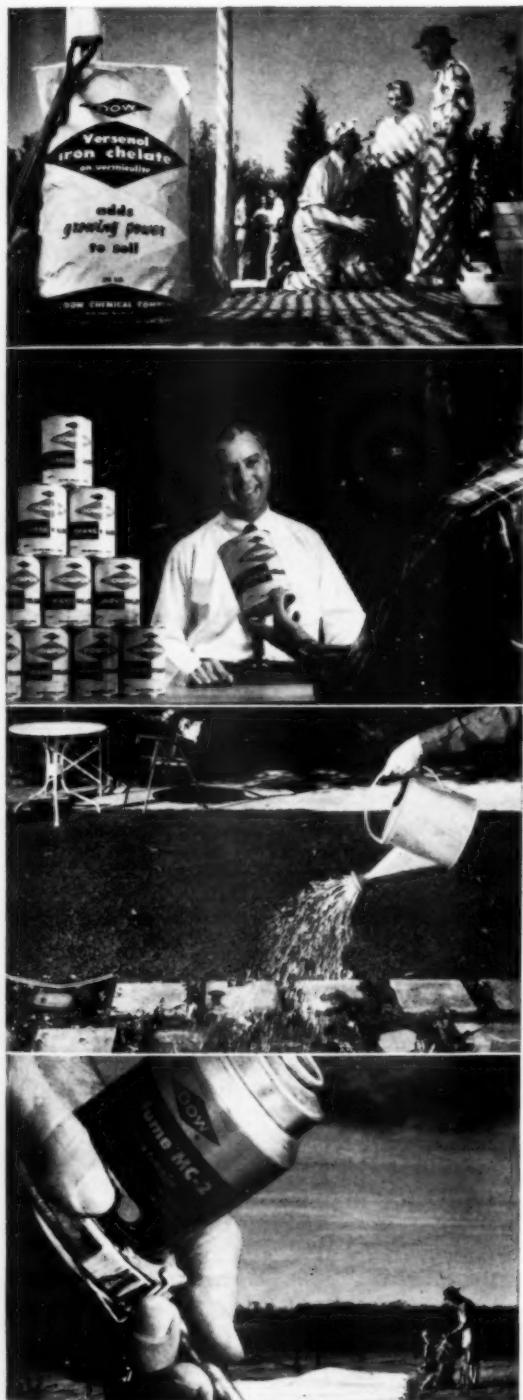
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**TOWN & COUNTRY**  
4202 Fordleigh Rd.  
Baltimore 15, Md.

DOW

FARM CHEMICALS

## 4 profit tips for nurserymen



### 1. Please customers twice with DOW IRON CHELATES

Customers will pay a premium for the greener, healthier trees, plants and shrubs that you've treated with Dow iron chelates, Versenol F and Versenol FA. These sources of highly available iron prevent chlorosis from iron deficiency, keep stock healthy and in full foliage, full bloom. Profit twice by selling customers the convenient packages of Versenol® iron chelates that will help them keep their nursery stock full of growing vigor.

### 2. Lively sales from grass killer, DOWPON

Stock this modern Dow grass killer to use and to sell. Dowpon® controls tough annual and perennial grasses systemically. Sprayed on leaves, it kills roots too. Available in handy 1-pound packages for home garden use and in larger quantities for profitable application around your nursery.

### 3. Long term weed, grass control with NOVON

You'll find many places around your nursery for Novon®, the nonselective combination weed and grass killer that gives full season control usually with one application. Stock it, too, for customers who'll want it for use around patios, driveways, sidewalks and other areas to control both weeds and grass with a single, simple spraying.

### 4. Protect nursery soil with DOWFUME MC-2

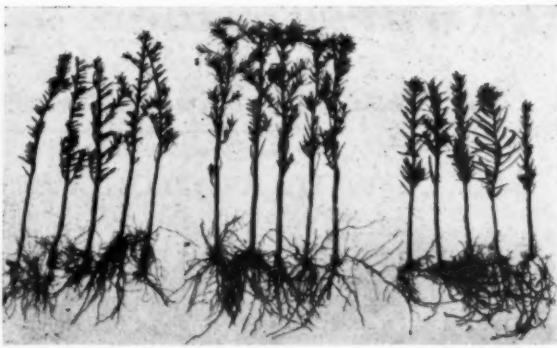
Get faster starting, faster growing and faster selling nursery stock by protecting every square foot of soil with Dowfume® MC-2 before planting. This powerful, positive soil fumigant controls nematodes and other soil-borne pests that stunt plants, trees and shrubs. Handy dispenser cans make Dowfume MC-2 easy to apply under a gas-proof cover.

*One more tip—contact your Dow distributor real soon. He'll show you how these and other Dow chemicals can add profit to your nursery business.*

THE DOW CHEMICAL COMPANY • MIDLAND, MICHIGAN

# HEAVILY ROOTED CUTTINGS

## JAPANESE HOLLY — JUNIPER — TAXUS



Taxus rooted cuttings as you will receive them. (Pictured left to right: T. cuspidata, T. cuspidata capitata, T. cuspidata Vermeulen).

### ILEX (Japanese Holly)

For immediate or later shipment.

	25	250	and up	and up
Varieties below	.....	\$0.09	\$0.08	
Crenata, selected upright, 6 ins.				
Convexa (bullata), 6 ins.				
Glossy, hardy, upright, 3 to 5 ins.				
Helleri, dwarf, spreading, 3 to 4 ins.				
Latifolia, big-leaved, tall, 6 ins.				
Microphylla, small-leaved, tall, 6 ins.				
Rotundifolia, round-leaved, globe, 6 ins.				

### JUNIPER, spreading types

Ready May-June and after.

	25	250	and up	and up
Varieties below, 5 to 7 ins.	\$0.12	\$0.11		
Chinensis pfitzeriana (Spreading Pfitzer)				
Chinensis pfitzeriana Armstrong (Compact Pfitzer)				
Chinensis pfitzeriana glauca (Blue Pfitzer)				
Glaucia betulifolia (Blue Betul)				
Horizontalis plumosa (Andorra), low				

### TAXUS (Yew)

Ready April-May and after.

	25	250	and up	and up
Baccata repandens (Spreading English)	6 ins....	\$0.15	\$0.14	
Cupressina (Spreading Japanese)	8 ins....	.11	.10	
Cupressina capitata Upright Japanese	6 ins. tips...	.13	.12	
10 ins. tips....	.17½	.16		
12 to 15 ins. tips....	.22½	.20		
Cupressina densiformis, compact spreader.	6 ins....	.13	.12	
Cupressina intermedia, compact spreader.	6 ins....	.11	.10	
8 ins....	.13	.12		

**FINER  
LINERS**

**JOHN VERMEULEN & SON, INC.**

Neshanic Station, N. J.

## EVERGREEN LINING-OUT STOCK

Finest seedlings and transplants from finest seed sources available . . . grown at our own nursery. Widest practical range of sizes and varieties available for ornamental or Christmas tree planting.

**SPRUCE • FIR • HEMLOCK  
MUGHO PINE • JUNIPER •  
ARBORVITAE, ETC.**

*From Wholesale Price List*

**SUNCREST NURSERIES**  
BOX 305-FF HOMER CITY, Pa.

**TAXUS**  
UPRIGHT and SPREADING  
HYBRID LILACS and  
FLOWERING  
CRAB APPLES  
**VANDERBROOK  
NURSERIES, INC.**  
MANCHESTER, CONN.  
QUALITY MERCHANDISE  
AT REASONABLE PRICES

coffee tree, is interesting but not important. Its pods are a nuisance, and it is late in coming into leaf. The foliage is sparse, like that of the black walnut, which it resembles in some ways.

In actuality, the shrubs and the trees of the legume family are quite interesting.

### SPRAY MEN ORGANIZING

Following in the footsteps of nurserymen, garden supply dealers, fruit and vegetable growers, florists and others engaged in the horticultural trades, the men who are primarily in the business of spraying lawns and fruit trees are forming their own trade groups in southeast Florida.

The first organization, called Horticultural Spraymen's Association of Florida, was organized at Miami a little over a year ago with 18 charter members, and in December another association, Professional Horticultural Spraymen's Association of Broward County, was organized with 35 charter members.

The purpose of both groups, according to their charters, is to "promote, improve and advance the horticultural spraying business; to foster and maintain the good will of the industry with the general public; to inform and advise the members of the public as to benefit and advantages of horticultural spraying, and to protect the public against false, misleading or improper advertising, methods of operation or conduct by members of the industry."

The latter clause of the charter regarding false, misleading and improper activities, was one of the major reasons for the decision by reputable men to organize. The entire industry was suffering from unfavorable publicity caused by criticism of a few fly-by-night or unethical operators who flagrantly violated contracts and failed to live up to advertising claims.

When the first group organized, two of their requirements were that members have a telephone listing showing a permanent address and that any complaints regarding work done by any member were to be thoroughly investigated by the board of directors.

Group-sponsored paid newspaper advertising and favorable editorial news coverage soon made the public aware of the organization, and during their first year many of their initial objectives were accomplished. The association adopted a distinctive insignia that members included in their advertising, on their letterheads and on their equipment.

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# "A NEW ELM IS BORN"

## THE AUGUSTINE ASCENDING ELM

"A NURSERYMAN'S TREE"

with GREAT  
INDESTRUCTIBILITY

COLUMNAR FORM—  
A YEAR-ROUND TREE

From  
this  to  
this 



Proof of perfect reproduction.

## NURSERYMEN— LANDSCAPE MEN— READ THIS!

### ELM TREE TROUBLES?

By ELDRED GREEN

Consultant, Midwest and  
Chicago Horticulture

Trees do not die—though they are killed. Trees, like many plants, are immortal. Each year they create a new set of tissues and organs. Each year new buds, branches, wood, bark and roots are formed. These create, each year, a new set for the succeeding year and so on and on.

Why then do trees perish—there are many reasons, but the main ones are malnutrition, drowning, accidents and disease. It must be remembered that a tree is immobile and must stay in a fixed position; each year it grows and increases in height and spread.

For instance, the following charts the growth of the many American elms planted across the United States under good growing conditions. And, most city tree plantings show how they have become overgrown by the following:

When planted out, a 3-yr. elm tree is an 8 to 10-ft. sapling.

When it has become a 12-yr.-old, it is 36 times larger; 24-yr.-old, 144 times larger; 40-yr.-old, 1150 times larger; 80-yr.-old, 2300 times larger.

Starvation often comes from overplanting, or having become overgrown. Planting in holes or pockets of good soil; in time a tree may exhaust the soil in the pocket; then it is left to seek minerals, being a much larger tree.

**BABY TREES ARE NOW  
QUOTED for LANDSCAPE  
GROWING FOR PARKWAYS,  
COUNTRY CLUBS, CAMPUSES,  
INSTITUTIONS, CEMETERIES.**

**You Make a Handsome Profit!**



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Jackson & Perkins  
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*Write for special Arbor Day literature.*

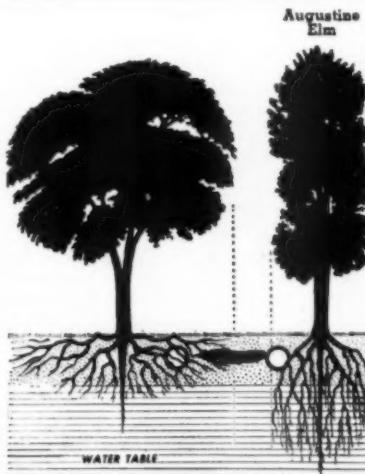
**Augustine Ascending Elm  
Research Associates, Inc.  
932 E. 50th St., Chicago 15, Ill.**

Drowning often takes the life of many trees, especially young thriving elms, which require plenty of oxygen during peak growing time of the summer. The trouble is most common on stiff soils. A pocket of good soil in clay may be literally a well. This is particularly true if excessive wetness comes when the young roots are growing and most sensitive to lack of air, as in late spring and summer.

Disease is accepted by the many as the main cause of death of trees. Yet, disease requires, mainly, a plant out of condition; the *cause*—fungus, mold, virus, insects, etc. All these must work together to cause a disease to take hold. Break the chain and there will be no disease.

The way to break the chain of disease is to keep the plants healthy with proper food, moisture, cultivation—all of which builds resistance—spray to keep off the pests that carry disease. The ABC's of trees in trouble evidence that disease is not the great reaper.

The information here assembled is for the helping of elm trees in trouble. Other trees in trouble are also affected from being overgrown and overpopulated, or from starvation, water whether too much or too little, and pests and plagues too are predicated mainly by the condition of each tree and its rooting area.



Compare the deep, loose-knit root system with the spreading roots of most trees. Roots go down deep to reach water, do not interfere with underground facilities.

# PINE — SPRUCE — FIR

## Seedlings and Transplants

	Per 100	Per 1000
<b>Norway Spruce</b> ( <i>Pinus excelsa</i> )		
(2-0), 2-yr., S., 2 to 3 ins.	\$ 7.00	\$18.00
(2-0), 2-yr., S., 3 to 5 ins.	8.00	22.00
(1-2), 3-yr., T., 5 to 10 ins.	10.00	50.00
(2-2), 4-yr., T., 6 to 12 ins.	12.00	60.00
(2-2), 4-yr., T., 8 to 14 ins.	16.00	90.00
<b>Scotch Pine</b> ( <i>Pinus sylvestris</i> )		
(2-0), 2-yr., S., 2 to 3 ins.	4.00	12.50
(2-0), 2-yr., S., 3 to 6 ins.	5.00	14.00
(2-0), 2-yr., S., 6 to 8 ins.	6.00	20.00
(3-0), 3-yr., S., 8 to 15 ins.	8.00	25.00
(2-0), 4-yr., T., 6 to 10 ins.	10.00	50.00
(2-2), 4-yr., T., 8 to 14 ins.	15.00	60.00
<b>Austrian Pine</b> ( <i>Pinus nigra</i> )		
(2-0), 2-yr., S., 2 to 4 ins.	4.00	20.00
(2-0), 2-yr., S., 3 to 6 ins.	6.00	25.00
(2-2), 4-yr., T., 5 to 10 ins.	15.00	70.00
<b>White Spruce</b> ( <i>Pinus alba</i> ), excellent blue-gray color		
(2-0), 2-yr., S., 3 to 6 ins.	5.00	25.00
(3-0), 3-yr., S., 4 to 8 ins.	6.00	30.00
(3-0), 3-yr., S., 5 to 10 ins.	10.00	45.00
<b>Concolor Fir</b> ( <i>Abies concolor</i> )		
(2-0), 2-yr., S., 2 to 3 ins.	8.00	...
(2-0), 3-yr., S., 3 to 6 ins.	10.00	...
(3-0), 3-yr., S., 4 to 8 ins.	15.00	...
<b>Douglas Fir</b>		
(2-0), 2-yr., S., 2 to 3 ins.	6.00	25.00
(2-0), 2-yr., S., 3 to 5 ins.	8.00	35.00

Discount: Less 5% on quantities of 5000 or more of a kind.

Order 100 at 100 rate; 1000 at the 1000 rate.

Special prices on large quantities. Write us.

**PALLACK BROS. NURSERIES, INC.**  
R. D. 1  
Harmony, Pa.

## BURKETT EVERGREEN NURSERY

1323 Church St.

Indiana, Pa.

Root-Pruned	SEEDLINGS	Irrigated	
<b>Scotch Pine</b>	Per 1000	Per 1000	
2-yr., 4 to 8 ins.	\$20.00	2-yr., 4 to 8 ins.	\$20.00
2-yr., 8 to 12 ins.	22.50	3-yr., 8 to 12 ins.	30.00
3-yr., 12 to 16 ins.	25.00	<b>Colorado Blue Spruce</b>	
<b>Austrian Pine</b>			
2-yr., 4 to 7 ins.	20.00	2-yr., 4 to 8 ins.	20.00
<b>Red Pine</b>			
3-yr., 5 to 10 ins.	25.00	3-yr., 6 to 10 ins.	30.00
<b>Hemlock</b>			
(2-2), 6 to 12 ins.	60.00	<b>Norway Spruce</b>	
Spanish, French, German, Austrian and Riga Pine.		2-yr., 5 to 10 ins.	20.00
Special discount on 50,000 or more.		<b>Douglas Fir</b> ( <i>glaucoides</i> )	
Complete list of ornamental canning material on request.		2-yr., 4 to 8 ins.	25.00

## CHRISTMAS TREE SEEDLINGS

Large, graded, 2-yr., straight-stemmed.	Per 1000
<b>SCOTCH PINE</b> , North German, 6 to 10 ins.	\$22.00
<b>NORWAY SPRUCE</b> , 5 to 10 ins.	22.00

GORTON'S NURSERY, 7486 E. Lake Rd., Erie, Pa.

## DWARF NINEBARK

(*Physocarpus opulifolius nana*)

Each	Each	Per 100	Per 1000
18 to 24 ins., heavily branched	35c	30c	

## SCHUTT NURSERIES

R. D. No. 5      Bloomsburg, Pa.  
Phone: STerling 4-5988

## SPECIALTY ITEMS LIMITED QUANTITY

<i>Cornus florida</i> <i>welchi</i>	Per 100	\$10.00
<i>Fagus sylvatica</i> <i>purpurea pendula</i>	10.00	
<i>Magnolia cordata</i>	10.00	
<i>Magnolia sieboldii</i> <i>parviflora</i>	8.50	
<i>Pinus strobus</i> <i>pendula</i>	8.00	
<i>Pinus sylvestris</i> <i>watereri</i> <i>glaucoides</i>	8.00	
<i>Pinus Tanquisho</i>	8.00	
<i>Quercus robur</i> <i>fastigiata</i>	9.00	

## HESS' NURSERIES

P. O. Box No. 128  
Wayne, N. J.

## OBITUARY

### Alex Horvath, Sr.

Alex Horvath, Sr., owner of the A. Horvath Evergreen & Rose Nursery, Perry, O., died March 7 after a long illness. He was 63 years old.

In the nursery business for 30 years and known as an evergreen specialist, Mr. Horvath was a member of the Lake County Nurserymen's Association. He is survived by the widow; two sons, Louis and Alex, Jr., both of Perry; a daughter, Mrs. Charles Hartman, Cleveland, O.; three grandchildren, and two brothers.

### Mrs. Beatrix Farrand

Mrs. Beatrix Farrand, landscape designer and consultant, died February 27 at Bar Harbor, Me. She was 86 years old.

Mrs. Farrand was a fellow and a charter member of the American Society of Landscape Architects, and in 1940 she had been named an honorary member of the American Institute of Architects. An honorary trustee of the Santa Barbara Botanic Garden, Santa Barbara, Calif., she was also founder and former president of Reef Point Gardens, Bar Harbor. She served as supervising landscape gardener at Princeton University, Princeton, N. J., and as consulting landscape gardener to arboreta and other colleges.

### Alfred C. Beaujean

Alfred C. Beaujean, A. C. Beaujean & Son, a nursery and landscape firm of Bronxville, N. Y., died in a hospital there February 16, at the age of 80.

Born at Lee, Mass., Mr. Beaujean was associated with several nurseries and greenhouses in the New York city area before establishing his own firm in 1939. Survivors include the widow; a daughter; a son, Alfred A., and two grandchildren.

### Jesse F. Ingram

Jesse F. Ingram, owner of Ingram's Bird Road Nursery, Miami, Fla., died there February 16. He was 56 years old. Mr. Ingram is survived by a son, Jesse, Jr., Miami; two daughters, Judy, Miami, and Martha, Orlando, and four sisters.

### Mrs. Claire E. Price

Mrs. Claire E. Price, secretary-treasurer of D. J. Greer Nursery, Inc., Miami, Fla., died there February 19 of a malignant growth at the age of 49. She had been secretary-treasurer of South Florida Nurs-

# FIELD-GROWN LINING-OUT STOCK

Transplanted stock grown in open field beds.

	Each	Each		Each	Each		Each	Each
	100	1000	rate	100	1000	rate	100	1000
<b>Azalea mollis (Chinese Azalea)</b>								
Flame shades, mixed								
6 to 8 ins., 2-yr., T.	.30	.22	\$0.18					
8 to 10 ins., 2-yr., T.	.35	.30						
8 to 12 ins., 3-yr., T.	.45	.40						
<b>Azalea Ghent pontica, pastel shades</b>								
Very hardy.								
2 to 4 ins., 2-yr., T.	.30	.28						
4 to 6 ins., 3-yr., T.	.35	.32						
6 to 10 ins., 3-yr., T.	.45	..						
<b>Azalea mucronulatum, lavender</b>								
4 to 8 ins., 2-yr., T.	.35	.32						
8 to 10 ins., 3-yr., T.	.45	..						
10 to 15 ins., 3-yr., T.	.55	.50						
<b>Buxus sempervirens welleri</b>								
(Weller's Hardy Boxwood)								
4 to 6 ins., 2-yr., T.	.28	.25						
6 to 8 ins., 2-yr., T.	.35	.32						
8 to 10 ins., 3-yr., T.	.45	..						
10 to 15 ins., 3-yr., T.	.55	.50						
<b>Chamaecyparis filifera aurea</b>								
(Golden Thread Cypress)								
8 to 10 ins., 3-yr., T.	.45	..						
<b>Chamaecyparis lawsoniana alumi</b>								
Columnar, blue.								
8 to 10 ins., 2-yr., T.	.30	.28						
10 to 12 ins., 3-yr., T.	.45	..						
12 to 18 ins., 3-yr., T.	.55	..						
<b>Chamaecyparis plumosa aurea</b>								
(Golden Plumed Cypress)								
6 to 8 ins., 2-yr., T.	.35	.30						
8 to 10 ins., 3-yr., T.	.40	.35						
10 to 15 ins., 3-yr., T.	.50	.45						
<b>Chamaecyparis squarrosa</b>								
Mossy green foliage.								
8 to 12 ins., 3-yr., T.	.35	..						
<b>Cotoneaster horizontalis (Rock Spray)</b>								
4 to 6 ins., 3-yr., T.	.25	.22						
6 to 10 ins., 3-yr., T.	.38	.32						
<b>Euonymus fortunei coloratus</b>								
Procumbent broad-leaved evergreen creeper.								
8 to 12 ins., 2-yr., T.	.25	.22						
12 to 18 ins., 3-yr., T.	.35	.32						
<b>Euonymus radicans vegetus</b>								
(Evergreen Winter Creeper)								
Orange berries.								
8 to 10 ins., 2-yr., T.	.35	..						
10 to 15 ins., 3-yr., T.	.45	..						
12 to 18 ins., 4-yr., T.	.50	..						
<b>Euonymus alatus (Winged Euonymus)</b>								
4 to 6 ins., 3-yr., S.	.18	.15						
6 to 10 ins., 3-yr., S.	.25	..						
10 to 15 ins., 3-yr., S.	.38	..						
<b>Ilex crenata (Japanese Holly), pyramidal</b>								
6 to 8 ins., 1-yr., T.	.25	.20						
8 to 10 ins., 2-yr., T.	.35	.32						
10 to 15 ins., 3-yr., T.	.45	.45						
12 to 18 ins., 3-yr., T.	.65	.60						
<b>Ilex crenata convexa (bulbosa)</b>								
(Box-leaved Holly)								
6 to 8 ins., 1-yr., T.	.25	.22						
8 to 10 ins., 2-yr., T.	.38	.35						
10 to 12 ins., 2-yr., T.	.45	..						
12 to 15 ins., 3-yr., T.	.65	.55						
12 to 18 ins., 5-yr., field-row spaced	1.00	.90						
<b>Ilex crenata hetzii</b>								
An improved form of convexa.								
6 to 8 ins., 2-yr., T.	.30	.28						
8 to 10 ins., 2-yr., T.	.40	.38						
10 to 15 ins., 3-yr., T.	.55	.50						
<b>Ilex crenata belleri</b>								
(Heller's Dwarf Holly)								
3 to 6 ins., 2-yr., T.	.35	..						
4 to 8 ins., 3-yr., T.	.45	..						
<b>Ilex rotundifolia (Round-leaved Japanese Holly)</b>								
6 to 8 ins., 1-yr., T.	.25	.22						
8 to 10 ins., 2-yr., T.	.35	.32						
10 to 12 ins., 3-yr., T.	.45	.40						
12 to 15 ins., 3-yr., T., field-row spaced	1.00	.90						
<b>Juniperus communis aurea (Golden Canadian Juniper), spreader</b>								
4 to 6 ins., 1-yr., T.	.25	..						
6 to 8 ins., 2-yr., T.	.35	..						
8 to 10 ins., 3-yr., T.	.45	.43						
<b>Juniperus glauca hetzii</b>								
(Hetz Juniper)								
8 to 12 ins., 2-yr., T.	.35	.30						
10 to 12 ins., 3-yr., T.	.40	.35						
12 to 15 ins., 3-yr., T.	.55	.48						
12 to 18 ins., 3-yr., T., cut back	.65	.60						
<b>Juniperus hibernica fastiginta</b>								
(Compact Irish Juniper)								
8 to 10 ins., 2-yr., T.	.35	.30						
10 to 12 ins., 2-yr., T.	.38	.33						
12 to 18 ins., 3-yr., T.	.45	.40						
<b>Juniperus horizontalis glauca</b>								
Blue-green spreader. Very low.								
6 to 8 ins., 2-yr., T.	.35	.32						
8 to 10 ins., 2-yr., T.	.40	..						
10 to 15 ins., 3-yr., T.	.50	..						
<b>Juniperus pfitzeriana</b>								
8 to 10 ins., 2-yr., T.	.45	.40						
10 to 15 ins., 3-yr., T.	.55	.50						
<b>Juniperus pfitzeriana compacta</b>								
Nelson variety blue spreader.								
6 to 8 ins., 3-yr., T.	.35	.30						
8 to 10 ins., 4-yr., T.	.40	.40						
10 to 12 ins., 3-yr., T.	.55	.50						
12 to 15 ins., 4-yr., T.	.65	.55						
<b>Juniperus pfitzeriana aurea</b>								
(Golden Pfitzer Juniper)								
8 to 10 ins., 2-yr., T.	.40	..						
10 to 12 ins., 2-yr., T.	.50	.45						
12 to 15 ins., 3-yr., T.	.60	.55						
<b>Juniperus squamata meyeri</b>								
(Meyer's Juniper), blue-green.								
6 to 8 ins., 2-yr., T.	.40	.45						
8 to 12 ins., 3-yr., T.	.50	.45						
<b>Juniperus stricta (Spiny Greek Juniper)</b>								
6 to 8 ins., 2-yr., T.	.40	..						
8 to 12 ins., 3-yr., T.	.48	..						
<b>Koelreuteria paniculata (Golden-Rain Tree)</b>								
5 to 12 ins., 3-yr., field, T.	.22	.18						
12 to 24 ins., 4-yr., field, T.	.35	.32						
<b>Leucothoe catesbeiae (Drooping Leucothoe)</b>								
8 to 10 ins., 3-yr., T.	.35	.30						
10 to 12 ins., 3-yr., T.	.45	.45						
12 to 15 ins., 3-yr., T.	.55	.55						
12 to 18 ins., 5-yr., field-row spaced	1.00	.90						
<b>Liquidambar styraciflua (Sweet Gum)</b>								
2-yr., S., bed run.	10	.08						
10 to 15 ins., 2-yr., S.	12	.10						
12 to 18 ins., 3-yr., T.	20	.18						
18 to 30 ins., 3-yr., T.	25	.22						
<b>Picea pungens (Colorado Blue Spruce)</b>								
4 to 6 ins., 4-yr., T.	.20	.18						
6 to 8 ins., 4-yr., T.	.35	.32						
<b>Pinus strobus (American White Pine)</b>								
6 to 8 ins., 2-yr., T.	.25	.22						
8 to 10 ins., 3-yr., T.	.35	.32						
10 to 12 ins., 4-yr., T.	.45	.42						
<b>Pinus strobus (Norway Spruce)</b>								
6 to 8 ins., 2-yr., T.	.25	.22						
8 to 10 ins., 3-yr., T.	.35	.32						
10 to 12 ins., 4-yr., T.	.45	.42						
<b>Pinus strobus (Scotch Pine)</b>								
6 to 8 ins., 2-yr., T.	.25	.22						
8 to 10 ins., 3-yr., T.	.35	.32						
10 to 12 ins., 4-yr., T.	.45	.42						
<b>Pinus strobus (Siberian Pine)</b>								
6 to 8 ins., 2-yr., T.	.25	.22						
8 to 10 ins., 3-yr., T.	.35	.32						
10 to 12 ins., 4-yr., T.	.45	.42						
<b>Pinus strobus (Tulipwood)</b>								
6 to 8 ins., 2-yr., T.	.25	.22						
8 to 10 ins., 3-yr., T.	.35	.32						
10 to 12 ins., 4-yr., T.	.45	.42						
<b>Pinus strobus (White Pine)</b>								
6 to 8 ins., 2-yr., T.	.25	.22						
8 to 10 ins., 3-yr., T.	.35	.32						
10 to 12 ins., 4-yr., T.	.45	.42						
<b>Pinus strobus (Yellow Pine)</b>								
6 to 8 ins., 2-yr., T.	.25	.22						
8 to 10 ins., 3-yr., T.	.35	.32						
10 to 12 ins., 4-yr., T.	.45	.42						
<b>Pinus strobus (Yellow Pine)</b>								
6 to 8 ins., 2-yr., T.	.25	.22						
8 to 10 ins., 3-yr., T.	.35	.32						
10 to 12 ins., 4-yr., T.	.45	.42						
<b>Pinus strobus (Yellow Pine)</b>								
6 to 8 ins., 2-yr., T.	.25	.22						
8 to 10 ins., 3-yr., T.	.35	.32						
10 to 12 ins., 4-yr., T.	.45	.42						
<b>Pinus strobus (Yellow Pine)</b>								
6 to 8 ins., 2-yr., T.	.25	.22						
8 to 10 ins., 3-yr., T.	.35	.32						
10 to 12 ins., 4-yr., T.	.45	.42						
<b>Pinus strobus (Yellow Pine)</b>								
6 to 8 ins., 2-yr., T.	.25	.22						
8 to 10 ins., 3-yr., T.	.35	.32						
10 to 12 ins., 4-yr., T.	.45	.42						
<b>Pinus strobus (Yellow Pine)</b>								
6 to 8 ins., 2-yr., T.	.25	.22						
8 to 10 ins., 3-yr., T.	.35	.32						
10 to 12 ins., 4-yr., T.	.45	.42						
<b>Pinus strobus (Yellow Pine)</b>								
6 to 8 ins., 2-yr., T.	.25	.22						
8 to 10 ins., 3-yr., T.	.35	.32						
10 to 12 ins., 4-yr., T.	.45	.42						
<b>Pinus strobus (Yellow Pine)</b>								
6 to 8 ins., 2-yr., T.	.25	.22						
8 to 10 ins., 3-yr., T.	.35	.32						
10 to 12 ins., 4-yr., T.	.45	.42						
<b>Pinus strobus (Yellow Pine)</b>								
6 to 8 ins., 2-yr., T.	.25	.22						
8 to 10 ins., 3-yr., T.	.35	.32						
10 to 12 ins., 4-yr., T.	.45	.42						
<b>Pinus strobus (Yellow Pine)</b>								
6 to 8 ins., 2-yr., T.	.25	.22						
8 to 10 ins., 3-yr., T.	.35	.32						
10 to 12 ins., 4-yr., T.	.45	.42						
<b								

# SAM DIBLE

## NURSERY

Shelby, Pa.

### SEEDLINGS AND TRANSPLANTS FOR SPRING

	Per 100	Per 1000
<b>Scotch Pine</b>		
2-yr., S., 2 to 4 ins.	\$ 2.00	\$10.00
2-yr., S., 4 to 8 ins.	4.00	20.00
3-yr., S., 8 to 14 ins.	4.00	20.00
3-yr., S., 10 to 18 ins.	6.00	25.00
Special low prices on complete beds of 3-yr. Scotch Pine.		
<b>French Scotch Pine</b>		
2-yr., S., 1 to 3 ins.	3.00	15.00
2-yr., S., 3 to 7 ins.	5.00	25.00
<b>Spanish Scotch Pine</b> , slow-growing variety with short needles.		
2-yr., S., 1 to 3 ins.	3.00	15.00
2-yr., S., 3 to 7 ins.	5.00	25.00
<b>Riga Scotch Pine</b>		
2-yr., S., 2 to 4 ins.	2.00	10.00
2-yr., S., 4 to 8 ins.	4.00	20.00
3-yr., S., 7 to 14 ins.	4.00	20.00
<b>Scotch Pine</b>		
(2-2), 5 to 10 ins., T.	10.00	50.00
(2-2), 10 to 15 ins., T.	15.00	75.00
(2-2), 15 to 20 ins., T.	25.00	...
<b>Austrian Pine</b>		
2-yr., S., 1 to 3 ins.	2.50	12.50
2-yr., S., 3 to 6 ins.	4.00	20.00
<b>Red Pine</b>		
2-yr., S., 2 to 4 ins.	3.00	15.00
3-yr., S., 5 to 10 ins.	5.00	25.00
<b>White Pine</b>		
2-yr., S., 1 to 3 ins.	2.00	10.00
<b>Ponderosa Pine</b>		
2-yr., S., 2 to 6 ins.	4.00	20.00
<b>Mugho Pine</b> , true dwarf		
3-yr., S., 1 to 3 ins., spread	7.00	35.00
<b>American Arborvitae</b>		
2-yr., S., 2 to 5 ins.	4.00	20.00
<b>Colorado Blue Spruce</b>		
3-yr., S., 2 to 4 ins.	2.50	12.50
3-yr., S., 4 to 8 ins.	7.00	35.00
4-yr., S., 6 to 12 ins.	12.00	60.00
(2-2), 3 to 6 ins., T.	10.00	50.00
(2-2), 8 to 12 ins., T.	30.00	...
<b>Norway Spruce</b>		
2-yr., S., 2 to 4 ins.	2.50	12.50
2-yr., S., 4 to 8 ins.	4.00	20.00
(2-2), 5 to 8 ins., T.	10.00	50.00
(2-2), 10 to 16 ins., T.	25.00	...
<b>Black Spruce (Picea mariana)</b>		
2-yr., S., 2 to 4 ins.	2.50	12.50
<b>White Spruce</b>		
2-yr., S., 2 to 4 ins.	2.50	12.50
(2-2), 4 to 8 ins., T.	10.00	50.00
(2-2), 8 to 12 ins., T.	15.00	75.00
(2-2), 12 to 25 ins., T.	25.00	...
<b>Black Hills White Spruce</b>		
(Picea glauca densata)		
2-yr., S., 2 to 4 ins.	4.00	20.00
(3-2), 3 to 5 ins., T.	10.00	50.00
(3-2), 5 to 10 ins., T.	15.00	75.00
<b>Douglas Fir, glauca</b>		
3-yr., S., 1 to 3 ins.	3.00	15.00
3-yr., S., 3 to 8 ins.	7.00	35.00
<b>Concolor Fir</b>		
2-yr., S., 3 to 6 ins.	9.00	45.00
Cash or 25% deposit. Balance C.O.D. 500 at 1000 rate.		
5% discount on quantities of 25,000. Write for discount on large orders.		
ROOTSPRED TREE PLANTER		
<b>FOR TRANSPLANTING IN BEDS</b>		
Scotch Pine, 1 to 2 ins., \$7.50 per 1000. Blue Spruce, 1 to 2 ins., \$8.00 per 1000.		
No Discount		

eries, Inc., Miami, for three years before going to the Greer firm two years ago. The survivors include four sisters, two brothers and a cousin.

#### T. R. Holcomb

T. R. Holcomb, Colorado Springs, Colo., retired nurseryman, died in a hospital there February 17 at the age of 69. He is survived by the widow, Mrs. Mattie Holcomb; three sons; a daughter, and seven grandchildren.

#### IOWA-ILLINOIS WORKSHOP ON LANDSCAPING

[Concluded from page 15]

on the local station's televised news program that night, and stories and pictures appeared in the local newspapers the following day.

The reaction toward this venture has been extremely good. Comments from those in attendance were excellent. Many persons asked if the association planned to make the workshop an annual affair, and at the last membership meeting it was decided to do so.

#### Experience Aids Future Plans

A few mistakes made in conducting this first landscape workshop will be rectified next year. The workshop committee decided, after the close of the series, that it had tried to cover too much material too fast. Next year, only two or three subjects will be offered, in order to permit more thorough discussions. For instance, Walter Brakeman, landscape architect, Home Nursery, La Fayette, Ill., covering "Landscape Design" in 45 minutes, did an excellent job, but could have done better in three such periods.

Also, funds for the workshop can be spent more intelligently next year. The association feels that, with the experience gained from this first project, it can obtain more returns for less than the approximate \$300 cost of this year's course. The group is contemplating making a nominal charge to help defray expenses rather than offering the program free, as was done this year. With only eight participating nurseries at the outset of this school, the cost outweighed the dues somewhat.

Association members, however, feel that this has been a worthwhile undertaking and would recommend it to any local organization as a public service project. Further information and a few remaining copies of the workshop program may be obtained by mailing inquiries, accompanied by a stamped, self-addressed envelope, to W. I. Huddleston, 813 34th avenue, Moline, Ill.

# BIG

We have one of the largest available supplies of big specimen material, including:

#### TAXUS FASTIGIATA

- TAXUS REPANDENS
- TAXUS CUSPIDATA
- HYBRID RHODODENDRON
- TSUZA CANADENSIS
- GINKGO BILOBA
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one of America's  
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#### TAXUS CAPITATA LINERS

From Japanese Seed

5-year-old, strong plants, XX, 12 to 16 ins., \$500.00 per 1000. Also 4-year, XX, Taxus varieties (below), \$60.00 per 100; \$550.00 per 1000.

T. browni, 12 to 14 ins.

T. hatfieldi, 12 to 14 ins.

T. Halloran, 12 to 14 ins.

T. henryi, 14 to 18 ins.

Honey Locust, Thornless, 2-yr., S., 14 to 16 ins., \$60.00 per 500.

Free packing.

Cash with order, please.

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Rhododendron • Kalmia • Azalea

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## VAL-PEAT® POTS - THE BETTER, STURDIER PEAT POT

### AMERICAN MADE - - "FULL DIMENSIONAL"

Val-Peat Pot sizes are inside top diameters "full dimensional." Our new 2 1/4-in. square Val-Peat Pots hold 42% more soil than some other peat pots of the same stated dimension. Our 2 1/4-in. round Val-Peat Pots also hold more soil than other brands.

ORDER VAL-PEAT POTS AND RECEIVE FULL MEASURE.

Mums  
Carnations  
Hydrangeas  
Perennials

Nursery Stock  
Foliage Plants  
Poinsettias



**VAL-PEAT POT ORDERS 150 LBS.  
AND OVER PREPAID IN U.S.A.**

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### VAL-PEAT POTS - ROUND SIZES

Inside top dimension of pot	Number of pots per carton	Approx. Wt. of carton	Price per 1000
8-1428A 2 1/4-in.	2,000 to 18,000	2000	\$ 7.25
Diameter 20,000 to 74,000		30 lbs.	6.75
Round 76,000 and over			6.25
8-1428B 3-in.	1,000 to 9,000	1000	13.25
Diameter 10,000 to 49,000		24 lbs.	12.25
Round 50,000 and over			11.00
8-1428C 4-in.	500 to 2,000	500	27 lbs.
Diameter 2,500 to 10,000			26.75
Round 11,000 and over	500 to 2,000	500	25.25
8-1428E 4-in.	2,500 to 9,500		28.75
Diameter 10,000 and over		25 lbs.	26.25
Round 10,000 and over			24.75

Inside top dimension of pot	Number of pots per carton	Approx. Wt. of carton	Price per 1000
8-1428F 2 1/4-in.	2,000 to 18,000	2000	\$ 7.00
Diameter 20,000 to 70,000		30 lbs.	6.50
8-1428G 3-in.	72,500 and over		6.00
8-1428D 3-in.	1,000 to 9,000	1000	11.00
Diameter 10,000 to 49,000		40 lbs.	10.25
Round 76,000 and over			9.50
8-1428H 4-in.	10,000 to 49,000		11.00
Diameter 50,000 and over		40 lbs.	10.25
Round 50,000 and over			9.50

### VAL-PEAT POTS - SQUARE SIZES

Inside top dimension of pot	Number of pots per carton	Approx. Wt. of carton	Price per 1000
8-1428E 2 1/4-in.	2500 to 17,500	2500	\$ 7.00
Diameter 20,000 to 70,000		30 lbs.	6.50
8-1428F 3-in.	72,500 and over		6.00
8-1428G 4-in.	1,000 to 9,000	1000	11.00
Diameter 10,000 to 49,000		40 lbs.	10.25
Round 76,000 and over			9.50
8-1428H 5-in.	10,000 to 49,000		11.00
Diameter 50,000 and over		40 lbs.	10.25
Round 50,000 and over			9.50

**NEW**

### LITE-WEIGHT No. 10 TWO SQUARE SIZES - 2 1/4 and 3-inch

For some growing purposes, these lighter weight pots are preferred.

Inside top dimension of pot	Quantity	Number Pots per carton	Wt. of carton
2 1/4-in.	2,500 to 17,000	2500	30 lbs.
Square No. 10	20,000 to 72,500	75,000 and over	

Inside top dimension of pot	Quantity	Number Pots per carton	Wt. of carton
3-in.	1,000 to 9,000	1200	30 lbs.
Square No. 10	10,000 to 49,000	50,000 and over	

**NEW**

#### Pot Label

**WOOD POT LABELS.** We carry the best quality of wooden labels made. They are smooth, strong and neat, 5/8 in. wide. When ordering, specify pot labels or garden stakes, painted or plain. In lots of 10,000 less 5%.

Packed to Carton	Plain	Painted	Per 1000	Per 1000
4-in. ....	\$3.10	\$3.80		
5-in. ....	3.30	4.10		
6-in. ....	3.60	4.50		
8-in. ....	5.30	6.60		
10-in. ....	6.30	7.70		
12-in. ....	7.50	9.10		

Packed to Carton	Plain	Painted	Per 1000	Per 1000
8-in.-7/8 in. wide	250	\$ 7.70	\$ 9.00	
10-in.-7/8 in. wide.	250	8.70	10.10	
12-in.-1 1/8 in. wide	100	15.50	18.00	

**WOOD TREE LABELS COPPER WIRED.** 3 1/2 ins. by 5/8 in. Per 1000, S-1542 plain, \$3.60; 5000 to 10,000, per 1000, \$3.55; S-1541 painted, per 1000, \$4.50; 5000 to 10,000, per 1000, \$4.45.

**WEATHERPROOF PENCILS.** Black lead. Ideal for marking pot labels, garden stakes or other outdoor work.

Cat. No.	Packed	Wt.	Dealers' Cost	Retail
S-1520	12	1/4 lb.	\$ 1.00	\$0.15
	36	1/4 lb.	2.85	.45
	144	2 lbs.	10.80	.15

**CHICAGO 6**  
601-609 W. Jackson Blvd.  
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**WEATHERPROOF PENCILS.** Black lead. Ideal for marking pot labels, garden stakes or other outdoor work.

Cat. No.	Packed	Wt.	Dealers' Cost	Retail
S-1520	12	1/4 lb.	\$ 1.00	\$0.15
	36	1/4 lb.	2.85	.45
	144	2 lbs.	10.80	.15

**Z.I.P. RABBIT AND DEER REPELLENT.** Z.I.P. acts as a TASTE repellent. It stops deer from eating and tends to break up browsing areas. Z.I.P. STICKS. It contains nothing to harm domesticated animals, yet protects valuable plantings from deer and rabbit destruction. In growing season use 1 qt. to 10 gallons of water. In dormant season use 1 qt. to 5 gallons of water. 6 oz. and 16 oz. are aerosol bombs.



Cat. No.	Size	Packed	Wt.	Cost	Retail
S-278	6 oz.	12	7	\$ 8.00	\$ 1.00
	16 oz.	12	17	18.00	2.25
	1 qt.	12	27	28.00	3.50
	1 gal.	4	36	34.40	11.40

**RINGWOOD RABBIT REPELLENT.** So effective just one application completely protects deciduous trees and shrubs during the dangerous dormant period - CONTINUES protecting them through spring and summer. Rain and snow CAN'T wash it off. Developed and proved BEST by U. S. Fish and Wild Life Service. One application gives all-winter-and-spring protection to TREES AND SHRUBS! 3 oz. and 12 oz. are aerosol bombs.



Cat. No.	Size	Packed	Wt.	Cost	Retail
S-1543	4 ins.	1	3 lbs.	\$ 0.65	\$1.00
	4 ins.	10	24 lbs.	6.00	12.50
	4 ins.	30	72 lbs.	16.50	



Dealers' Cost	Retail
\$ 9.40	\$2.25
18.00	2.25
6.60	1.60
12.80	1.60

**Vaughan's Seed Co.**  
THE FLOWER SEED HOUSE OF AMERICA

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## PRICES AND PROFITS

*Comments on Business Management in the Nursery*

By John J. Pinney

### FIGURING MARKUP

"How should I mark up my nursery stock?" This question is often asked by those who are new in the nursery business. It is a question that should also be asked more often by those who have been a long time in the nursery business. It is the markup that determines whether or not one makes a profit.

There is no easy answer to that question. Certainly there is no magic formula that can be applied in all cases. It might be well first to define markup, which is expressed in percentage and is determined in this manner: Subtract the cost from the selling price and then divide the difference by the selling price. The resulting percentage is called markup.

Markup should be based on the selling price rather than on cost. There is a great deal of confusion and misunderstanding on this subject. A few examples may help clear it up. Suppose a tree cost \$3 and is sold for \$6. The difference in price is \$3. If this figure is divided by the selling price, \$6, the result is 50 per cent. Now suppose the selling price is raised to \$8. Dividing the difference, \$5, by the selling price, \$8, gives 62½ per cent. When figured in this way, a markup of 100 per cent is impossible.

### Misleading Method

Why should markup be figured on selling price rather than cost? Actually, there are some retailers who use cost as a basis for determining markup. For example, if they buy a plant for \$1 and sell it for \$2, they say they have marked it up 100 per cent, because the selling price is 100 per cent more than cost. If the retail price is \$3, the markup is 200 per cent, etc. Usually it is those who figure in this manner who get into trouble because of a markup that is too low. A markup of 200 per cent sounds big, but when figured on selling price it becomes only 66⅔ per cent.

Practically all of the leading mercantile organizations use the retail price as the basis for determining markup. This applies to the big mail-order houses, department stores and syndicates. It also applies to nearly

all of the smaller successful retail stores.

There are some aggressive wholesale supply houses serving nurseries and garden centers that tell their customers their products have a markup of 33⅓ to 66⅔ per cent. These percentages are figured on cost. Of course they are far more attractive than when figured on the selling price, in which case the markup would be only 25 to 40 per cent.

### Overhead Items

Now to get back to the original question: How much should nursery stock be marked up? To the original cost must be added all the items that are covered by the nebulous term "overhead." Because so many items are involved in overhead, some of them might easily be overlooked. I shall list a number of them here; the reader can probably think of others:

Transportation (freight, express,

parcel post); postage; salaries of executives; wages of other employees; utilities (electricity, water, telephone, telegraph); rent on buildings or interest on investment in them; interest on investment in office equipment; office supplies; insurance (many kinds); taxes (also many kinds), and advertising.

### All Expenses Must Be Met

Admittedly, it is impossible to allocate all of these expenses equitably to the various items of merchandise on sale. Yet they are a part of the cost of doing business and must be met from profits. When one makes a careful analysis of his overhead expenses, he is less likely to price his merchandise too low. There are nursery businesses in which the overhead costs are actually greater than the cost of the merchandise offered for sale by the firms.

Nursery stock, being perishable, must carry a higher markup than nonperishable merchandise in order to compensate for the greater risks. Live plants require more care than inanimate products; some of the plants may die before they are sold; replacements may have to be made to keep customers satisfied, and there may be some carry-over involving added expense for care between seasons. These are expenses and risks

## STRATFORD EVERGREEN TREE NURSERY

Stratford, N. Y.

Spring, 1959

	Per 100	Per 1000
<b>Scotch Pine Boonville</b>		
Green year around, straight-stemmed.		
(2-0), 3 to 6 ins. ....	\$5.00	\$22.50
(2-0), 5 to 9 ins. ....	6.00	25.00
(3-0), 6 to 12 ins. ....	8.00	35.00
(2-1), 5 to 10 ins., T. ....	9.00	40.00
<b>Scotch Pine Spanish Blue</b>		
(2-0), 3 to 6 ins. ....	4.00	18.50
<b>Scotch Pine French Blue</b>		
(2-0), 3 to 6 ins. ....	4.00	18.50
<b>Austrian Pine</b>		
(2-0), 3 to 6 ins. ....	5.00	22.00
(3-0), 4 to 8 ins. ....	6.00	30.00
(2-1), 4 to 8 ins., T. ....	7.00	35.00
<b>Collected Canadian Hemlock</b>		
5 to 9 ins. ....	7.00	35.00
9 to 12 ins. ....	8.00	60.00
<b>Collected Adirondack Double Balsam</b>		
4 to 8 ins. ....	7.00	35.00

DISCOUNT: 5% 10,000 to 25,000, 7½% 26,000 to 99,000, 10% 100,000 or more. 10% deposit, 90% F.O.B. or established bank credit. 25% deposit, 75% C.O.D. 50 at 100 rate, 500 at 1000 rate.

## PENNSYLVANIA EVERGREEN SEEDLINGS

We have the best for Christmas trees. Pines, Spruces, Firs. Send for listing today.

**SCHROTH'S NURSERY**

Indiana, Pa.

# TRACTOR CARRY-ALL

The handiest piece of equipment a nurseryman can own. Can be attached or detached in 3 minutes to any tractor with 3-point hitch. Lifts up to 2000 lbs. from ground level to 3 1/2 ft. for easy loading. Carries plants from field to loading area. Saves damage to trucks in soft ground.

*Al Nordheden*

LANDSCAPER  
WEST END GREENHOUSES  
1300 N. GOODMAN - PHONE 7-4341  
URBANA, ILLINOIS  
March 2, 1959

Last Coast Flower Farms  
Pink Hill,  
North Carolina

c/o Mr. H. A. Edwards

Dear Mr. Edwards:

Last spring we purchased one of your carry-all platforms for our Oliver 55 Tractor. At the time we purchased this piece of equipment we did not realize how extensively we would use it. We are presently using it for transportation of plants to and from the field. During spray season we mount 4, 55 gallon barrels of spray solution on it as we use a power take-off sprayer for spraying our fields. During the planting season we use it to transport our tractor implements to and from our lawn construction jobs.

Even though we have only had this piece of equipment a short time, it has more than paid for itself. Frankly, I don't see how we ever got along without it.

Yours very truly,

*Al Nordheden*  
Al Nordheden

AK/ct

## READ WHAT OWNERS SAY ABOUT THE TRACTOR CARRY-ALL...

"Enclosed please find check to cover one Tractor Carry-All.

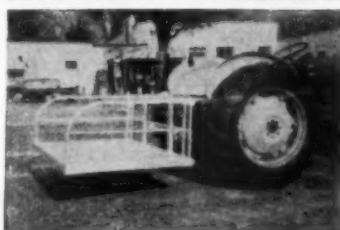
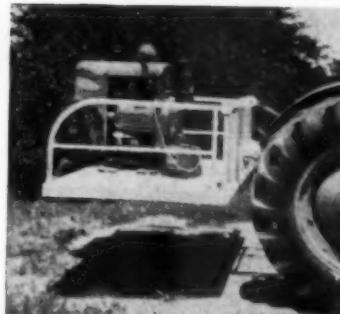
"This is a fine piece of equipment. It paid for itself the first two days we used it. We think every nursery should own one."

JEFFERSON FLORIST &  
NURSERY  
Greenville, N. C.

"We want you to know how useful we find the Carry-All for our three-point hook-up tractor. It is really one of the best pieces of equipment that a nursery can own."

"The Carry-All is nice for moving plants in containers and for going to the field for a few B&B plants. In moving and loading large trees, it is excellent. When plants are to be moved the men start looking for the Carry-All."

STEED'S NURSERY  
Candler, N. C.



"We are very much pleased with the  
Tractor Carry-All."

BOYD NURSERY CO.  
McMinnville, Tenn.

Write Today  
for Special  
Trial Offer  
and  
Discounts to  
Nurserymen

**East Coast  
FLOWER FARMS  
PINK HILL, N. C.**



# SHRUBS! SHRUBS! SHRUBS!

Western New York's best growing season in years has produced the finest-quality shrubs available on the market.

If your order is placed in time we may be able to include it in a pool car to your area and save transportation costs.

	Each		Each
<b>BARBERRY</b>		<b>PHILADELPHUS</b>	
<i>Thunbergi</i> (Green-Leaved)	22c	<i>Aureus</i>	30c
15 to 18 ins.		12 to 15 ins.	25c
<i>Thunbergi atropurpurea</i> (Red-Leaved)	27c	9 to 12 ins.	
18 to 24 ins.		<i>Virginalis</i>	
<b>CARYOPTERIS</b>		2 to 3 ft.	32c
<i>Blue Mist</i>	25c	18 to 24 ins.	27c
No. 1		12 to 18 ins.	25c
<b>COTINUS COGGYGRIA</b>			
(Smoke Tree)			
2 to 3 ft.	50c	<b>POTENTILLA</b>	
<b>DEUTZIA</b>		<i>Gold Drop</i>	
<i>Gracilis</i>		18 to 24 ins.	37½c
24 to 30 ins.	45c	15 to 18 ins.	30c
18 to 24 ins.	37c	<i>Kathryn Dykes</i>	
15 to 18 ins.	32c	18 to 24 ins.	35c
<i>Gracilis rosea</i>			
2 to 3 ft.	40c	<b>SPIRAEA</b>	
18 to 24 ins.	35c	<i>Japanica coccinea</i>	
<i>Lemoinei</i>		12 to 15 ins.	30c
18 to 24 ins.	32c	<i>Vanhouttei</i>	
<b>EUONYMUS</b>		2 to 3 ft.	27c
<i>Alatus compactus</i>		18 to 24 ins.	22c
15 to 18 ins.	65c		
12 to 15 ins.	50c	<b>WEIGELA</b>	
<i>Patens</i>		<i>Eva Rathke</i>	
18 to 24 ins.	50c	2 to 3 ft.	32c
<b>HYDRANGEA</b>		<i>Rosea</i>	
<i>Arborescens grandiflora</i>		3 to 4 ft.	32c
2 to 3 ft.	37½c	<i>Vaniceki</i>	
18 to 24 ins.	30c	2 to 3 ft.	32c
<i>Nikkonis</i>		18 to 24 ins.	27½c
No. 1	40c		

Send for complete list of varieties and sizes and our list of berry plants and grapevines.

## CONGDON'S WHOLESALE NURSERY

North Collins, N. Y.

## PACHYSANDRA

*Terminalis* (Japanese Spurge). The ideal permanent evergreen ground cover plant for shady and semi-shaded areas in all climates. Does well in sunny areas, too. Absolutely winter hardy in the most northern climates. Per 1000 for

Per 1000 Per 1000 5000 or more

Strong, well-rooted, 1-yr. plants; propagated in soil and peat frames with light shade ... \$6.00 \$50.00 \$47.50

Available for prompt shipment throughout the year. Shipments anywhere including Canada. GOOD PACKING FREE. A good source of supply.

**PEEKSKILL NURSERY**

Phone: Lakeland 8-5595  
SHRUB OAK, N. Y.

**TAXUS** In varieties,  
certified for western shipment.

**BULK'S NURSERIES**

610 W. Montauk Hwy.

Babylon, N. Y.

## MULTIFLORA ROSE

(*Rosa multiflora japonica*)

Hardy, northern-grown plants. Our highest quality is well known.

2 to 3 mm. in caliper, 8 to 12 ins. in height, \$12.50 per 1000.

3 to 8 mm. in caliper, 12 to 24 ins. in height, \$22.50 per 1000.

Less than 1000 add 30%.

Packing at cost.

**BROOKVILLE NURSERIES**

Box 53, Northern Blvd.  
Glen Head, N. Y.

## ROSES

Central Pennsylvania Grown  
2-yr.-old, field-grown plants.  
Hybrid Teas—Floribundas—Climbers

## EVERGREENS

Landscape Material  
Twice transplanted, regularly sheared.  
Young, salable evergreens for cash-and-carry trade of garden shops, roadside markets and nurseries.

Write for wholesale price list.

## SHADE'S NURSERY

624 Colonial Club Dr.  
Harrisburg, Pa.

Phone: Harrisburg, KI 5-5417

5 miles east of Harrisburg on U. S. Rt. 22, turn north at Inn 22, nursery 1 mile north of U. S. Rt. 22.

that must be considered in pricing nursery stock.

The turnover in the nursery business is slow compared to many other types of business. The food store operator can turn his stock many times during the year. Consequently, he can operate at a profit on a much smaller markup. Nursery stock must carry a much higher markup to earn a reasonable amount on the investment.

### Sixty Per Cent Markup Common

There are many successful retail nurserymen who follow a more or less standard practice in pricing their nursery stock. Rarely is one found who marks up as little as 50 per cent, which is not enough to make a fair profit. A more common practice is to mark up 60 per cent, and there are many who mark up 66½ per cent. There are nurserymen emphasizing high-quality merchandise and superior service who mark up some of their plants as much as 75 per cent.

It is not practical to follow a given rule in the pricing of all nursery stock. In general, the lower the price, the greater the markup that is possible. Conversely, the higher the price, the lower the markup. For example, a shrub that costs 50 cents might easily retail for \$1.50 or \$2, a markup of 66½ to 75 per cent. But a tree costing \$50 may not retail for more than \$100 or \$125, a markup of 50 per cent to 60 per cent.

The retailer who buys all of his nursery stock has an advantage in pricing his merchandise, because he knows his original costs. The retailer who grows part or all of his stock has no such advantage, because he has no way of knowing the production costs of each plant. Cost accounting in the nursery business has not advanced to that point.

In general, it can safely be said that nursery stock is priced too low. Part of the difficulty is caused by a misunderstanding of markup and part by failure to give due consideration to overhead expenses. Also, not enough importance is attached to the slow turnover inherent in the business and the unusual risks involved because of the perishable nature of nursery stock. All of these factors must be considered in pricing.

### SELLING QUALITY STOCK

The sale of the highest-quality nursery stock can result in the greatest profit. It is difficult to define quality, but nearly all experienced nurserymen are aware of its meaning. In nursery stock it is not syn-

# LOOK — WE INVITE YOU TO COMPARE

## COLORADO SPRUCE

(*Picea Pungens*)

### BEAUTIFUL GREEN COLORADOS

LOOKING FOR AN OPPORTUNITY? — HERE IS ONE

One of the greatest opportunities ever offered the nursery industry: Once transplanted trees at prices comparable to bulk-grown reforestation seedlings. We never expect to again give such an offer. Why — this time? Because we just have more than we can grow on and are giving the nursery trade this chance to capitalize on it.

No Packing Charge!

5,000 to 10,000	15c each
10,000 to 50,000	13c each
50,000 to 100,000	11c each
100,000 or over	10c each
Sample bunch of 10 trees	\$3.00

Prices F.O.B.  
Portland, Ore.

### WONDERFUL FOR:

CHRISTMAS TREES

HIGHWAY PLANTING

WOOD LOTS

MAIL ORDERS

WINDBREAKS

CONTAINERS

HEDGES

REFORESTATION

ESTATES

GROWING ON

There's no catch to this. We mean just what we say: Colorado Spruce 5 years old, once transplanted, from open beds, 12 to 24 inches from root collar to tip, so fine and bushy we can only tie 10 in a bunch.

This offer good to April 15 only. Cash of course. 25% will reserve. Reserve orders must be out by April 1. Get a carload or a trailerload.

And if you are looking for:

### PINUS ARISTATA (Bristlecone Pine)

We can supply 1 to 3-inch trees only, once transplanted, \$14.00 per 100; \$31.50 per 250. Limit 250 per customer.

REFER TO OUR DESCRIPTIVE WHOLESALE CATALOG FOR A WHOLE HOST OF OTHER FINE EVERGREEN MATERIALS. Trade Only!

WHOLESALE  
ONLY!



**SHERWOOD NURSERY CO.**

Evergreens — PROPAGATORS AND GROWERS

WHOLESALE

Wholesale list available — trade only.  
(It contains complete descriptions.)

CORBETT, ORE.

## MAXWELL, BOWDEN & RICE, INC.

Growers of Fine Nursery Stock

### WHOLESALE ONLY

Roses — Shrubs — Fruit Trees — Ornamentals — Vines — Hedge  
Geneva, N. Y. — Phone 8131

**69 years' experience growing**

## QUALITY STOCK

**Over 30 years' experience**

## EXPERT PACKAGING

*Insure Customer Satisfaction*

- Roots packed in PEAT MOSS for sure growth.
- Eye-appealing—moisture-retaining—GOLD FOIL and SILVER FOIL CONTAINERS.
- Large, full-color plates and complete planting instructions on all containers.
- Ad mats—sales aids on request.
- All stock generously graded.
- Finest delivery service anywhere.

*Write for Our Spring, 1959, Catalog*

## BERBERIS JULIANAE

Northern-grown, stocky plants; generously graded with good ball of earth. Prices are each per 100 (25 or more). Write for special quotation on large quantities.

15 to 18 ins.....	\$2.00
18 to 24 ins.....	2.75
24 to 30 ins.....	3.50
30 to 36 ins.....	4.00
36 to 42 ins.....	5.00

## ANGELICA NURSERIES

R. D. No. 1

Mohnton, Pa.

## SPECIAL SALE NORWAY MAPLES

All Transplanted and Well Grown

2 to 2½-in. cal., B. R., \$6.20  
2½ to 3-in. cal., B. R., \$9.40  
6 to 8 ft., B. R., \$2.40

Order Now! Write or Phone!

## NORLEY NURSERIES

Phone: ALpine 6-8485

Gardiner, N. Y.

Concord Grape Roots  
Red Raspberry  
Flowering Shrubs  
Boston Ivy  
Currants

IVAN R. CONGDON NURSERY  
North Collins, N. Y.

### SHADE TREES—ORNAMENTALS

Gleditsia triacanthos, Carpinus caroliniana, Cercis canadensis, Cornus florida, Phellodendron amurense, Platanus acerifolia, Liquidambar styraciflua, Acer platanoides, Acer rubrum, Fraxinus americana, Acer ginnala, Ostrya virginiana, Koelreuteria paniculata, Pyrus calleryana, Pinus strobus, Pinus nigra, Salix babylonica, Pieris japonica and many more.

HIDDEN VALLEY NURSERY  
Phone: MILLington 7-1158 Gillette, N. J.

### DECIDUOUS AND EVERGREEN

#### TREES AND SHRUBS

Outstanding assortment.

*Write for Wholesale Price List.*  
LOVETT'S NURSERY, INC.  
LITTLE SILVER, N. J.

### FINER LINERS

Finest Varieties—Finest Quality  
Hardy, Northern New Jersey Grown

*Catalog on request.*

JOHN VERMEULEN & SON  
Neshanic Station, N. J.

onymous with size; a small shrub can be of as high quality as a large one.

A plant can be said to be of high quality when it possesses in high degree those characteristics which make it a desirable plant for its purpose. For example, an ornamental shrub is of high quality when it is in good, viable condition, free from diseases and injurious insects; has sufficient root development for the size of its top, and possesses enough branches or canes for its size to be characteristic of the variety.

Why is it more profitable to sell the best quality rather than inferior merchandise? To some nurserymen, this question may seem purely academic. There is no doubt in their minds that only high-quality merchandise should be offered. Yet it is a fact that many persons, when starting in the nursery business, believe they must meet all competition and that the way to do it is to buy cheap, inferior stock.

Just as much space is required to store and display inferior plants as is needed for the best. Therefore, the investment in buildings and equipment, expressed as a percentage of the value of each plant, is higher for the poor stock than it is for the best.

### Costs More To Sell

The cost of advertising, salaries and commissions paid to sales personnel, hours spent in making sales and overhead costs are equal for poor merchandise and for the best. In fact, they can increase for inferior stock, because it is necessary to sell more units to equal the value of a smaller number of the quality plants.

A nurseryman cannot hope to build a sound business with cheap stock. Most of the customers attracted by such merchandise are bargain hunters who rarely become regular customers. Because the mortality with poor plants is high, the nurseryman who sells them has more complaints, more replacements to make and more dissatisfied customers.

On the other hand, the nurseryman who makes it his policy to offer the best is catering to the most desirable trade. There are plenty of buyers who demand quality and are willing to pay for it. The nursery stock they buy can be expected to give satisfaction. The statement that a satisfied customer is the best advertisement is a cliché, but it is nonetheless true. The more one has of such buyers, the less he has to invest in the conventional media of advertising.

The higher the plane on which one



Our London Plane—July 30, 1958

## PRINCETON = TREES

### THE FINEST OBTAINABLE

Unit prices covering 50 or more of a variety.

	6 to 8 ft.	8 to 10 ft.	1 1/2 to 1 1/2-in. cal.	1 1/2 to 1 1/2-in. cal.	1 1/2 to 2-in. cal.	2 to 2 1/2-in. cal.
<b>Silver Maple</b> .....	<b>\$1.50</b>	<b>\$2.25</b>	<b>\$3.00</b>	<b>\$4.50</b>	<b>\$ 6.00</b>	....
<b>Pyramidal Silver Maple</b> .....	3.00	3.75	5.50	....	....	....
<b>Red or Scarlet Maple</b> .....	....	5.00	6.75	9.00	....	....
<b>Norway Maple</b> .....	3.25	4.25	5.50	6.50	8.00	....
<b>Columnar Norway Maple</b> .....	3.25	4.50	6.00	8.00	10.50	13.50
<b>Schwedler Maple</b> .....	....	5.00	6.50	8.00	....	....
<b>Summershade Maple</b> (Plant Patent No. 1748) .....	3.25	4.50	6.50	8.15	....	....
<b>American Ash</b> .....	2.00	2.50	3.50	6.00	....	....
<b>Green Ash</b> .....	2.00	2.50	3.50	6.00	....	....
<b>London Plane Tree</b> .....	....	3.50	5.00	7.00	9.00	....
<b>American Plane Tree</b> .....	2.25	3.00	4.25	5.75	6.50	....
<b>American Linden</b> .....	2.25	3.00	4.00	5.00	....	....
<b>Pin Oak</b> .....	....	4.00	5.50	7.00	9.50	12.00
<b>Red Oak</b> .....	3.30	4.40	6.00	....	....	....
<b>Shademaster Locust</b> (Plant Patent No. 1515) .....	....	5.50	7.50	9.00	....	....
<b>Mornine Locust®</b> (Plant Patent No. 836) .....	5.00	7.00	....	....	....	....
<b>Cole's New Sunburst Locust</b> (Plant Patent No. 1313) .....	4.10	6.75	8.50	....	....	....
<b>Prunus subhirtella pendula,</b> on own stem .....	4.50	5.50	....	....	....	....

Also many other varieties including small growing and flowering trees. Plus a very complete ornamental line.

## PRINCETON NURSERIES

Princeton, N. J.

Phones: Princeton, WA 4-1776 — WA 4-1777

# GRAFTED LINERS

"Remember the Quality When You Compare the Price"

<i>Acer palmatum atropurpureum</i>	10	100	<i>Juniperus chinensis columnaris glauca</i>	10	100
<i>Acer palmatum dissectum atropurpureum</i>	7.50	65.00	<i>Juniperus chinensis columnaris viridis</i>	6.50	55.00
<i>Acer rubrum columnare</i>	7.50	65.00	<i>Juniperus chinensis keteleeri</i>	6.50	55.00
<i>Acer saccharum monumentale</i>	7.50	65.00	<i>Juniperus scopulorum Blue Haven</i>	6.50	55.00
<i>Cedrus atlantica glauca</i>	7.50	65.00	<i>Juniperus virginiana burki</i>	6.50	55.00
<i>Chamaecyparis obtusa compacta</i>	6.00	50.00	<i>Juniperus virginiana elegansissima</i>	6.50	55.00
<i>Chamaecyparis obtusa gracilis</i>	6.00	50.00	<i>Juniperus virginiana globosa</i>	6.50	55.00
<i>Cornus florida alba plena</i>	6.50	55.00	<i>Juniperus virginiana schottii</i>	6.50	55.00
<i>Cornus florida pendula</i>	7.50	65.00	<i>Magnolia sieboldii parviflora</i>	7.50	65.00
<i>Cornus florida rubra</i>	6.50	55.00	<i>Magnolia stellata rubra</i>	7.50	65.00
<i>Cornus florida rubra Prosser</i>	7.50	65.00	<i>Magnolia stellata Water Lily</i>	7.50	65.00
<i>Cornus florida weitchi</i>	10.00	—	<i>Parrotia persica</i>	6.50	55.00
<i>Cornus kousa chinensis</i>	6.50	55.00	<i>Pinus cembra</i>	7.00	60.00
<i>Fagus sylvatica asplenifolia</i>	6.50	55.00	<i>Pinus strobus pendula</i>	8.00	—
<i>Fagus sylvatica fastigiata</i>	6.50	55.00	<i>Pinus sylvestris watereri glauca</i>	8.00	20.00
<i>Fagus sylvatica heterophylla</i>	6.50	55.00	<i>Pinus Tanyosho</i>	8.00	70.00
<i>Fagus sylvatica pendula</i>	6.50	55.00	<i>Quercus robur fastigiata</i>	9.00	80.00
<i>Fagus sylvatica purpurea pendula</i>	10.00	90.00	<i>Thuja orientalis aurea nana</i>	5.50	45.00
<i>Fagus sylvatica riversi</i>	6.50	55.00	<i>Thuja orientalis conspicua</i>	5.50	45.00
<i>Hamamelis mollis</i>	6.50	55.00	<i>Thuja orientalis elegansissima</i>	5.50	45.00
<i>Ilex opaca femina Hookstraw (Old Heavy Berry)</i>	7.50	65.00	<i>Tsuga canadensis pendula</i>	6.50	55.00
<i>Ilex opaca femina Judge Brown</i>	7.50	65.00			

Prices F.O.B. Mountain View, N. J.

Terms to those of established credit—25% down for C.O.D. Packing at cost. 25 at 100 rate, 250 at 1000 rate.

QUALITY LINING-OUT STOCK SINCE 1922

## HESS' NURSERIES

P. O. Box No. 128  
Wayne, N. J.

Check the classified section for our list of seedlings and cuttings from 2 1/4-in. pots.

### CANADIAN HEMLOCK and BALSAM FIR

#### Northern-Grown

	Per 100	Per 1000
2 to 4 ins. S.	\$ 2.00	\$ 10.00
3 to 6 ins. S.	3.00	17.50
6 to 9 ins. S.	5.00	30.00
9 to 12 ins. S.	9.00	70.00
12 to 18 ins. S.	12.50	100.00
18 to 24 ins. S.	30.00	—
Freshly collected. Well rooted. Potted and packed in sphagnum moss. Catalog of plants, ferns, evergreens on request.		

WILLIAM CROSBY HORSFORD  
Charlotte, Vt.

### ORNAMENTAL EVERGREENS

#### Trees and Shrubs

BAGATELLE NURSERY  
P. O. Huntington Station, N. Y.

### NORTHERN-COLLECTED

Hemlocks, Ferns, Wild Flowers  
Trees, Shrubs

ISAAC LANGLEY WILLIAMS  
EXETER, N. H.

### TOP-QUALITY LINERS

Seedlings and Hardwood Rooted Cuttings  
1-year, row run.

	250 or more 6 to 9 ins. H.W.	Per 100 per 1000 \$3.00 \$25.00
1300 <i>Cornus alnifolia</i> for budding	9 to 12 ins. H.W.	3.50 30.00
400 <i>Cornus paniculata</i>	3 to 6 ins. S.	1.50 12.50
1500 <i>Lonicera tatarica rubra</i>	9 to 12 ins. H.W.	5.00 45.00
500 <i>Symporicarpus orbiculatus</i>	12 to 15 ins. H.W.	3.50 30.00
1000 <i>Symporicarpus americanus</i>	12 to 18 ins. H.W.	4.00 35.00
2500 <i>Symporicarpus racemosus</i>	9 to 12 ins. H.W.	4.50 40.00
3500 <i>Celastrus orbiculata</i>	9 to 12 ins. H.W.	3.50 30.00

ADAMS NURSERY, INC.

P. O. Box 525 Westfield, Mass.

### B&B EVERGREENS

#### Hemlock Pfitzer Juniper Globe Arborvitae

Nursery located north end of Broad Brook on Connecticut Highway No. 140.

Ask for Wholesale Price List

### E. NORMAND MYERS

Nurseryman  
Broad Brook, Conn.

### BOULEVARD NURSERIES

Newport, R. I.

- Quality Nursery Stock
- Lining-Out Stock
- Root-Thru Plant Pots

operates his business, the less the competition he encounters. Since his products are the best, they command the highest prices, and he makes more profit per unit sale.

### MASSACHUSETTS COURSE

[Continued from page 11]

rate of growth, and Mr. Flemer recommended that this be done only after trees have reached a salable size.

### Sees Increasing Tree Demand

He summarized by stating that there is a bright future for shade tree production. Housing projects, replacement of overgrown street tree plantings, urban renewal projects and the revitalization of slum areas, as well as highway plantings, all will swell the demand for well-adapted tree varieties.

During the afternoon session, a panel discussion was headed by Dr. John Havis, head of the Waltham field station. Panel members were Dr. Robert Ticknor, department of nursery culture, Waltham field station, speaking on weed control; Floyd A. Oatman, Adams Nursery, Inc., Westfield, Mass., speaking on fertilization and weed control; Clifford Chater, shade tree laboratory, Waltham field station, speaking on insect control, and Henry Gilbertson, Waltham field station, speaking on disease control.

In describing briefly the work which has been done with weed control, Dr. Ticknor mentioned methyl bromide, vapam and mylone as three preplanting materials used for weed control with liners and in seedbeds. Of these, methyl bromide was found most effective and had the advantage of requiring a much shorter waiting period for planting after treatment.

As he stated, however, some objection has been raised to the methyl bromide treatment, because it requires the use of a tarpaulin to cover the treated area. Vapam and mylone, he said, are effective, but the 2 to 3-week waiting period following application constitutes a serious drawback through delay in planting during a busy season.

### Test Mulches for Weed Control

Mulches that were used as post-planting weed controls included black plastic and shredded cane. Dr. Ticknor used colored slides of the test plots to show that cane gave the best weed control.

At the present time, the cost of chemical weed control for field stock is relatively high. Dr. Ticknor suggested that the nurseryman might

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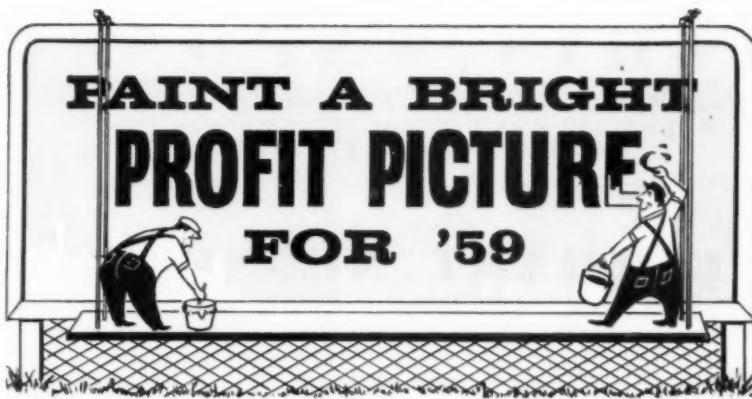
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APRIL 1, 1959

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*By Combining the Effective Pulling Power of the*  
**A. A. N. CONVENTION NUMBER**

**WITH COLOR ADS**

*The only "special" issue of the year — to be published on July 15*

Our readers use this issue the year around, referring to it whenever buying decisions are to be made. It serves them as a buyers' guide because practically every firm supplying the nursery trade is represented on its advertising pages. With its national coverage of nearly 10,000 commercial nurserymen, it is the only buyers' guide going to the ENTIRE nursery trade.

**SPECIAL RATES FOR COLOR ADS**

**4-color ads—\$300 per page**

Full, living, vibrant color which brings out the depth and brilliance of your color illustration.

Printed on patent-base presses; unmounted electros of 11-pt. thickness, with beveled edge, required.

**2-color ads—\$200 per page**

Eye-catching ads in either green-and-black or red-and-black, to spark up your advertising message.

Regular wood-mounted, type-high plates are used in printing these special 2-color pages.

Build your firm's prestige and capture the full attention of our readers by using color advertising in this biggest issue of the year.

Mail your space reservation early...  
...reservation deadline, APRIL 15

**AMERICAN NURSERYMAN**  
343 S. Dearborn St.  
Chicago 4, Ill.

## PIERIS JAPONICA

We grow select stock for you. Container growers, wholesale distributors, lining-out. All stock from open field rows.

	Per 1000
1-yr.	\$150.00
2-yr.	300.00
3-yr.	450.00

## ECKHART NURSERIES

*Growers of Pieris*

Species	Varieties	Hybrids	Truck Terminal
16 Toppa Blvd. Newport, R. I.			Rt. 138, Portsmouth, R. I.

try, on an experimental basis, the use of such materials as Simazine for a long-term weed control, dalapon at the rate of one pound per acre as a control for grass-type weeds or diuron at the rate of one pound per acre.

Mr. Oatman emphasized the importance of the "big three"—nitrogen, phosphorus and potash—and explained how these nutrients affect plant growth. His fertilizer program for shade and flowering trees calls for the application of cow or hen manure alone for the first year after trees are planted. The second year and thereafter, he recommends a June application of a 10-6-4 fertilizer at the rate of 800 pounds per acre.

An accelerated cover crop program which has proved successful over the past three years at the Adams Nursery is as follows: In early spring, workers drill or broadcast one to two bushels of corn per acre and spread 400 pounds of 10-10-10 fertilizer per acre. The corn is plowed down when 30 to 36 inches tall.

One week later (about midsummer) the fields are reseeded with corn and fertilized as before. Mr. Oatman added that Sudan grass, at the rate of 25 to 30 pounds per acre, is a good substitute for corn as a midsummer cover crop. For the fall and winter cover crop, common rye or rye grass is used at the rate of 30 to 40 pounds per acre with 400 pounds of 10-10-10 fertilizer per acre. This is left undisturbed until May, when corn is planted as previously described.

Planting to nursery stock may be done two weeks after the corn cover crop is plowed under. Mr. Oatman remarked, however, that it would be best to use a subplow to make sure the corn is well covered and wait to disk the field until just before planting.

Discussing briefly the irrigation

## 20,000 TAXUS

Just right for garden center and the nursery trade. Priced just right for quick sales.

	Each	Each	Per 100	Per 1000
T. <i>wardi</i> , 12 to 16 ins.	\$2.25	\$2.00		
T. <i>hatfieldi</i> , 12 to 16 ins.	2.25	2.00		
T. <i>brownii</i> , 12 to 16 ins.	2.25	2.00		
T. <i>capitata</i> , 12 to 16 ins.	2.25	2.00		
T. <i>hicksii</i> , 12 to 16 ins.	2.25	2.00		
T. <i>henryi</i> , 12 to 16 ins.	2.25	2.00		

(The originator's true strain.)

Your visit to the nursery would be most welcome. New Jersey Turnpike Exit No. 9 to New Brunswick and Easton Ave. We are located at corner of Easton Ave. and Cedar Grove Rd., about 7 miles from Pennsylvania Railroad Station.

Route No. 22 to Bound Brook Main St. to South Bound Brook Main St., continue approximately 2 miles from South Bound Brook on Easton Ave. to corner at Cedar Grove Lane.

## BELL ACRE NURSERIES

P. O. Box 597, Easton Ave. South Bound Brook, N. J.

## TAXUS CAPITATA

80,000 3-yr., S., 6 to 12 ins., \$16.00 per 100; \$120.00 per 1000.

### SPECIAL

15,000 Spruce, Norway, 5-yr., T., 12 to 18 ins.  
9000 Pine, Scotch, 4-yr., T., 12 to 18 ins.  
25,000 Spruce, Colorado, 4-yr., S., 6 to 12 ins.

No reasonable offer refused on entire lot.

Catalog on request.

## HEASLEY'S NURSERIES

247 Freeport Rd.

Butler, Pa.

## VIBURNUM RHYTIDOPHYLLUM

(Leather-Leaved Evergreen Viburnum)

Extra-heavy, stocky plants furnished with good balls of earth. Prices: Each per 100 (25 or more). Write for special quotations on large quantities.

15 to 18 ins.	\$1.50
18 to 24 ins.	2.00
24 to 30 ins.	2.50
30 to 36 ins.	3.50
3 to 3½ ft.	4.50

## ANGELICA NURSERIES

R. D. No. 1

Mohnton, Pa.

12

Sales instead of 1

with **BIRD**  
**GRO-TAINERS®**

Ring the bell for extra sales, extra profits . . . with Bird Gro-Tainer Seedling Flats. Three sizes enable you to display and sell twelve or six plants at a time. Your customers get healthy plants — there's no root damage caused by cutting individual plants from large flats.

Look at these advantages: molded from hard durable fibre for strength and rigidity; flange around top gives added durability, easier handling; drainage holes provide proper moisture control; sidewall aeration further prevents waterlogging; tapered sides and ends reduce soil requirements without sacrificing top spacing; nesting allows easy, safe storage in minimum space. And Bird Gro-Tainers may be used with Bird Vita-Bands, Peat Pots or Vita-Green Pots for prime plants.

Bird Gro-Tainers are available for immediate delivery. So to ring the bell for greater profits, order from your distributor — now. Or send coupon for complete information and prices.

## Sizes

Model	Bottom Dimension	Top Dimension	Height
2	6" x 4"	7 1/2" x 5 1/2"	2 1/2"
3	7" x 5 1/2"	8 1/2" x 6 1/2"	2 1/2"
4	8" x 6"	9 1/2" x 7 1/2"	2 1/2"

Bird & Son, Inc., Dept. AN  
East Walpole, Massachusetts

Please send me free literature, prices and growing instructions on the following:

(Check items on which you want information.)

Peat Pots  Vita-Green Pots  Perennial Pots

Vita-Bands  Gro-Tainer Seedling Flats

Name.....

Street & No. ....

City & State.....

MAKE THIS A BANNER PROFIT YEAR

with **BIRD** Growing Containers



## SPECIAL BARGAIN SALE

For Wholesale Purchasers Only

10 to 15 ins., **60c**      15 to 21 ins., **90c**      21 ins. and up, **\$1.25**

### You to Dig

Come see us after April 6. We have sold farms and must vacate. Bring your spades and plenty of burlap. First come—first served. Terms cash. Sale ends May 1.

## DIAMOND STATE NURSERIES

Milford, Del.

Phone: GArden 2-4919

method used at Adams Nursery, Mr. Oatman stated that this is one of the most important single factors in the growth rate of small or newly planted stock. The nursery is so situated that water can be pumped from a river on two sides of the property. Skinner utility sprinklers are operated steadily for four to six hours and then moved to the next location.

### Insect Control

Speaking on insect control in the nursery, Prof. Clifford S. Chater showed colored slides of some of the most troublesome insect pests and the damage they cause to nursery stock.

He emphasized that, whereas chlordane is the recommended control for the black vine weevil often found on taxus varieties, it is only effective in control of the adult weevil and should be applied between June 25 and July 20. Spray should be concentrated on the lower branches and on the soil under plants.

Good control of oyster-shell scale can be obtained with either malathion or DDT applied about June 1. Maple bladder gall may in some years cause unsightly small red swellings on the leaves of both silver and red maples but seems to have no serious effect on the vitality of the trees. He recommended malathion as a good control, provided it is applied as soon as foliage begins to unfold.

Henry Gilbertson discussed tree diseases that give considerable concern to nurserymen. Rust on hawthorn may be either the hawthorn rust or quince rust, he said, but advised that ferbam, at the rate of two pounds to 100 gallons of water, should give good control for both.

For quince rust he suggested two applications at 10-day intervals starting May 1. For hawthorn rust the first application should be made about July 1. According to Mr. Gil-

## JAPANESE RED MAPLES

(*Acer palmatum atropurpureum*)      Per 100      Per 1000  
1-yr., own-root plants, 5 to 8 ins. .... \$29.00      \$260.00  
200 or more plants take 1000 rate.

### 3-YR., GRAFTED TRANSPLANTS

9 to 12 ins., B.R. ....	Each \$1.80
12 to 15 ins., B.R. ....	2.00

### GRAFTED, FIELD-GROWN, WELL-SHAPED SPECIMENS

12 to 15 ins., B&B ....	Each \$2.80
15 to 18 ins., B&B ....	3.30
18 to 24 ins., B&B ....	4.00
24 to 30 ins., B&B ....	5.50

5% discount on 50 plants or more.

Nursery pickup only on B&B stock.

## GORTON'S NURSERY,

7486 E. Lake Rd., Erie, Pa.



## HOLLIES

Named Opacas—Hardy to 20° Below  
3-yr., 1-gal. nursery cans, \$2.20  
5-yr., 2-gal. nursery cans, \$3.25  
A few B&B to 5 ft.  
Nursery pickup—no shipping.

Ewalt's HEMLOCK HOLLOW NURSERY  
R. D. 3      Wexford, Pa.  
Phone: Westmore 5-1009  
(17 miles north of Pittsburgh)

## DIRKMAAT AZALEA FARM

P. O. Box 453 Phone: Gilbert 4-6639  
516 Stevens Ave. Ridgewood, N. J.  
Azaleas—both budded and lining-out stock—are our specialty. See our classified ads.

## FIFTY THOUSAND OWN-ROOT RHODODENDRONS

A wide range of hardy varieties in one, two and three-year plants. Come and see for yourself, to compare quality and prices, or just come and talk rhododendrons, if you prefer.

**WELLS NURSERY**  
P. O. Box 141      Red Bank, N. J.  
Phone: SHadyside 1-0180

### EMERALD CUSHION

PATENT NO. 1112

★ A very dwarf, dense, compact and slowly growing, broad-leaved evergreen which is neatly rounded and requires little shearing. 15 to 18 ins. high. Its symmetrical spread of about 3 ft. is generally twice its height. A most versatile shrub which can be used on terraces, foreground and foundation plantings.

FREE COLOR FOLDER

### CORLISS BROS.

IPSWICH  
21, MASS.

## DEL-MAR-VA NURSERIES

Growers of Quality  
Taxus, Ilex and other Ornamentals.  
Ask for list.  
DEL-MAR-VA NURSERIES  
LINCOLN, DEL.  
Phone: Milford, Delaware 4445

# PLUMFIELD NURSERIES, INC.

Box 471, Fremont, Neb.

## DECIDUOUS SEEDLINGS

Tied, 3 to 4 ft. and up, 25 per bundle; 2 to 3 ft., 50 per bundle; 18 to 24 ins. and smaller, 100 per bundle.

	Per 100	Per 1000		Per 100	Per 1000
<b>Ash, Green</b>			<b>Honey Locust, Thornless</b>		
2 to 3 ft.	\$ 4.00	\$ 35.00	3 to 4 ft.	\$ 8.00	\$ 75.00
18 to 24 ins.	2.90	25.00	2 to 3 ft.	5.00	45.00
12 to 18 ins.	2.40	20.00	18 to 24 ins.	3.50	30.00
<b>Box Elder</b>			<b>Maple, Ginnala</b>		
3 to 4 ft.	5.00	50.00	12 to 18 ins.	5.50	50.00
2 to 3 ft.	4.00	35.00	9 to 12 ins.	4.50	40.00
18 to 24 ins.	2.90	25.00	<b>Maple, Soft</b>		
12 to 18 ins.	2.40	20.00	2 to 3 ft.	7.00	60.00
<b>Caragana arborescens</b>			18 to 24 ins.	4.50	40.00
3 to 4 ft.	7.00	65.00	12 to 18 ins.	3.20	28.00
2 to 3 ft.	6.00	55.00	<b>Oak, Bur</b>		
18 to 24 ins.	4.50	40.00	18 to 24 ins.	14.00	120.00
12 to 18 ins.	3.50	30.00	12 to 18 ins.	8.50	80.00
<b>Cherry, Wild Black</b>			<b>Oak, Pin</b>		
3 to 4 ft.	7.00	65.00	2 to 3 ft.	22.00	200.00
2 to 3 ft.	5.50	50.00	18 to 24 ins.	14.00	120.00
18 to 24 ins.	4.50	40.00	<b>Oak, Red</b>		
12 to 18 ins.	3.50	30.00	3 to 4 ft.	33.00	300.00
<b>Chokecherry</b>			2 to 3 ft.	22.00	200.00
2 to 3 ft.	8.00	75.00	<b>Prunus tomentosa</b>		
18 to 24 ins.	7.50	65.00	2 to 3 ft.	15.00	120.00
<b>Cotoneaster acutifolia</b>			<b>Rhus canadensis</b>		
18 to 24 ins. br.	12.00	100.00	6 to 12 ins.	2.70	22.00
18 to 24 ins.	7.00	65.00	<b>Rosa multiflora</b>		
<b>Elm, American</b>			3/4-in. cal. and up...	5.50	50.00
2 to 3 ft.	4.00	35.00	1/2-in. cal.	5.00	45.00
18 to 24 ins.	3.20	28.00	5/16-in. cal.	4.00	35.00
12 to 18 ins.	2.40	20.00	8 to 12 ins.	2.70	22.00
<b>Elm, Chinese</b>			<b>Silverberry</b>		
2 to 3 ft.	4.50	40.00	2 to 3 ft.	9.00	85.00
6 to 12 ins.	1.40	12.00	18 to 24 ins.	6.50	60.00
<b>Elm, racemosa (Cork Bark)</b>			<b>Walnut, Black</b>		
18 to 24 ins.	5.00	45.00	2 to 3 ft.	9.00	80.00
12 to 18 ins.	3.50	30.00	<b>Western Sand Cherry</b>		
<b>Lilac, Common</b>			18 to 24 ins.	7.00	60.00
12 to 18 ins.	6.50	60.00	12 to 18 ins.	5.00	45.00
6 to 9 ins.	3.50	30.00			
<b>Locust, Black</b>					
2 to 3 ft.	4.00	35.00			

## SHRUBS

	Per 10	Per 100		Per 10	Per 100
<b>Cornus alba sibirica</b>			<b>Physocarpus opulifolius</b> , common, light shrub grade.		
3 to 4 ft.	\$ 7.50	\$70.00	18 to 24 ins.	\$3.50	\$30.00
2 to 3 ft.	6.00	55.00	12 to 18 ins.	3.00	25.00
<b>Cotoneaster acutifolia</b>			<b>Physocarpus opulifolius</b> , common		
3 to 4 ft.	7.00	65.00	2 to 3 ft.	5.50	50.00
<b>Cydonia japonica</b>			<b>Spiraea Anthony Waterer</b>		
3 to 4 ft.	6.50	60.00	18 to 24 ins.	6.00	55.00
2 to 3 ft.	5.50	50.00	15 to 18 ins.	5.00	45.00
<b>Forsythia intermedia</b>			<b>Spiraea billardii</b>		
3 to 4 ft.	7.50	70.00	2 to 3 ft.	5.50	50.00
2 to 3 ft.	6.00	55.00	18 to 24 ins.	4.50	40.00
<b>Honeysuckle, Plumfield, red</b>			<b>Spiraea Trochell</b>		
18 to 24 ins.	4.00	35.00	2 to 2 1/2 ft.	5.50	50.00
<b>Hydrangea P. G.</b>			18 to 24 ins.	4.50	40.00
18 to 24 ins.	5.50	50.00	12 to 18 ins.	4.00	35.00
12 to 18 ins.	3.50	30.00	<b>Spiraea multiflora</b>		
<b>Lilac, Persian, red</b>			3 to 4 ft.	6.50	60.00
2 to 3 ft.	6.00	55.00	2 to 3 ft.	5.50	50.00
18 to 24 ins.	5.00	45.00	18 to 24 ins.	4.50	40.00
<b>Philadelphus Glacier</b>			<b>Spiraea thunbergi</b>		
2 to 3 ft.	6.50	60.00	3 to 4 ft.	7.00	65.00
<b>Philadelphus lemoinei</b>			2 to 3 ft.	5.50	50.00
2 to 3 ft.	7.00	65.00	<b>Spiraea vanhouttei</b>		
18 to 24 ins.	5.00	50.00	2 to 3 ft.	4.50	40.00
			18 to 24 ins.	3.50	32.00

## SHADE TREES

	Per 10	Per 100		Per 10	Per 100
<b>Ash, Green</b>			<b>Honey Locust, Thornless</b>		
8 to 10 ft.	\$25.00	\$225.00	8 to 10 ft.	\$33.00	\$300.00
6 to 8 ft.	17.50	160.00			
5 to 6 ft.	11.00	100.00	<b>Lilac, Chinese Tree</b>		
<b>Crab Apple, Almey</b>			4 to 5 ft.	15.00	140.00
6 to 8 ft.	22.00	200.00	3 to 4 ft.	11.00	100.00
<b>Crab Apple, Hopa</b>			<b>Linden, Redmond (Budded Variety)</b>		
1 1/4-in. cal.	30.00	275.00	8 to 9 ft.	35.00	325.00
6 to 8 ft.	16.50	150.00	7 to 8 ft.	32.50	300.00
<b>Elm, American</b>			6 to 7 ft.	28.00	250.00
1 1/4-in. cal.	25.00	225.00	5 to 6 ft.	16.50	150.00
8 to 10 ft.	18.00	165.00	4 to 5 ft.	13.00	110.00
6 to 8 ft.	12.00	110.00	<b>Maple, Soft</b>		
<b>Elm, Moline</b>			8 to 10 ft.	18.00	165.00
8 to 10 ft.	22.00	200.00	6 to 8 ft.	15.50	140.00
6 to 8 ft.	16.50	150.00	<b>Oak, Pin</b>		
<b>Hackberry</b>			2-in. cal.	\$0.00	\$750.00
8 to 10 ft.	30.00	275.00	1 1/2-in. cal.	60.00	550.00
6 to 8 ft.	22.00	200.00	1 1/4-in. cal.	45.00	400.00

Send us your list for quotations.

TERMS: As per our published list which includes satisfactory credit or cash with order. Please order full bunches. 300 of any variety and size at 1000 rate.

WRITE FOR SPRING WHOLESALE CATALOG

## LINING-OUT EVERGREENS

	Each	Each	Each
	per 10	per 100	per 1000
<b>Abies, Balsam</b>			
6 to 9 ins. R.P.	\$0.15	\$0.12	...
4 to 6 ins. R.P.	.10	.08	...
<b>Abies concolor</b>			
12 to 15 ins. R.P.	.40	.35	...
9 to 12 ins. R.P.	.25	.20	...
<b>Juniper, excelsa stricta</b>			
9 to 12 ins. T.T.T.	.70	.65	\$0.00
<b>Juniper, Pfitzer</b>			
18 to 24 ins. T.T.T.	1.50	1.35	1.25
15 to 18 ins. T.T.T.	1.10	1.00	.90
12 to 15 ins. T.T.T.	.85	.80	.75
9 to 12 ins. T.T.T.	.70	.65	.60
<b>Juniper, Pfitzer Hetz</b>			
18 to 24 ins. T.T.T.	1.45	1.35	1.25
12 to 15 ins. T.T.T.	.85	.80	.75
<b>Juniper, Savin</b>			
18 to 24 ins. T.T.T.	1.45	1.35	1.25
15 to 18 ins. T.T.T.	1.10	1.00	.90
12 to 15 ins. T.T.T.	.85	.80	.75
<b>Thuja occidentalis pyramidalis</b>			
15 to 18 ins. T.T.T.	1.10	1.00	.90
12 to 15 ins. T.T.T.	.85	.80	.75
9 to 12 ins. T.T.T.	.70	.65	.60
<b>Thuja occidentalis (Common American Arborvitae)</b>			
6 to 9 ins. R.P.	.10	.08	.06
<b>Thuja occidentalis woodwardi</b> (Woodward Globe)			
9 to 12 ins. T.T.T.	.70	.65	.60

## HORIZONTAL JUNIPERS

	Each	Each	Each
	per 10	per 100	per 1000
<b>Juniper, Admirabilis</b>			
15 to 18 ins. T.T.T.	\$1.00	\$0.90	\$0.80
12 to 15 ins. T.T.T.	.75	.70	.65
<b>Juniper, Adpressus</b>			
9 to 12 ins. T.T.T.	.60	.55	.50
<b>Juniper, Andorra</b>			
15 to 18 ins. T.T.T.	1.00	.90	.80
12 to 15 ins. T.T.T.	.75	.70	.65
9 to 12 ins. T.T.T.	.60	.55	.50
<b>Juniper, Petreus</b>			
9 to 12 ins. T.T.T.	.60	.55	.50

## FRUIT TREE STOCKS

	Per 100	Per 1000
<b>Malus Columbia</b>		
No. 2	\$4.50	\$40.00
No. 3	3.50	30.00
<b>Malus Osman</b>		
No. 2	4.50	40.00
<b>Malus Rosy bloom</b>		
No. 2	4.50	40.00
No. 3	3.50	30.00
<b>Pear, ussuriensis</b>		
1/2-in. cal.	4.50	40.00
No. 1	4.10	36.00
<b>Prunum, Native</b>		
1/2-in. cal.	4.50	40.00
No. 1	4.00	35.00
No. 2	2.90	25.00
<b>Prunus hortulana</b>		
We are growing this as a nonsuckering variety.		
1/2-in. cal.	5.00	45.00
No. 1	4.50	40.00
No. 2	3.50	30.00
<b>Prunus japonica</b>		
18 to 24 ins.	7.00	65.00
12 to 18 ins.	5.50	50.00
<b>Prunus padus</b>		
18 to 24 ins.	7.00	65.00

# ROSES

Again we offer them from the finest rose-growing areas:  
CALIFORNIA — ARIZONA

All the leading patented and standard varieties.

## Price Schedule of Standard Varieties

Grade	Each	Each	Each	Each	Each
10	250	1000	2500	Over	
to 240	to 990	to 2490	to 5000	5000	
No. 1	\$0.60	\$0.58	\$0.56	\$0.55	\$0.54
No. 1½	.50	.48	.46	.45	.44

NO CHARGE FOR PACKING—F.O.B. MOORESTOWN, N. J.  
FREE INDIVIDUAL LABELS

Colored Pictures—8x10 ins., 5¢ each.

## MOORESTOWN GARDENS, Inc.

55 E. OAK AVE.

MOORESTOWN (Burlington County), N. J.

(Exit 4 on New Jersey Turnpike)

Phone: BELmont 5-1020

Complete List Upon Request



## SUB-ZERO ROSES

Look for this tag to be sure of getting original Brownell Roses . . . personally grown by Mr. Brownell. The famous varieties, plus exciting new ones, too.

Write for Color Catalog No. 3 today!

**WALTER D. BROWNELL, JR.**

Brightbridge Rose Co., East Providence 14, R. I.



## CONTAINER-GROWN PLANTS

We will have many thousands of container-grown plants ready for shipment after July 1, 1959.

See classified ad section for surplus listing of miscellaneous stock for spring shipment.

**VERKADE'S NURSERIES**

P. O. Box 336 New London, Conn.

## NORWAY MAPLES

Each	Each	Each
1 to 9	10 to 48	\$0 and up
1 ½ to 2 ins. ....	\$10.00	\$ 9.00
2 to 2 ½ ins. ....	12.00	10.00
2 ½ to 3 ins. ....	15.00	13.00
3 to 3 ½ ins. ....	19.00	....

## SCHWEDLER MAPLES

1 ½ to 2 ins. ....	10.00	9.00	8.00
2 to 2 ½ ins. ....	12.00	10.00	9.00
2 ½ to 3 ins. ....	16.00	....	....

## ADAMS NURSERY, INC.

Westfield, Mass.

## LINING-OUT STOCK

Seedlings, Rooted Cuttings  
and Transplants  
Write for list.

**LEGHORN'S EVERGREEN NURSERY CO., INC.**  
50 Geer St. Cromwell, Conn.

## KOREAN FRAGRANT VIBURNUM

Viburnum carlesii—one of the best.  
2 to 3 ft., B&B.....\$3.50  
3 to 4 ft., B&B.....5.00  
Larger specimens according to value.

**GEORGE F. BLOOMER NURSERIES**  
Rt. 69 Flemington, N. J.  
Phone: Flemington 155-J

## CANADIAN HEMLOCK BALSAM FIR

Per 100	Per 1000
2 to 4 ins., S. ....	\$ 2.00
3 to 6 ins., S. ....	3.00
6 to 9 ins., S. ....	5.00
9 to 12 ins., S. ....	9.00
12 to 18 ins., S. ....	12.00

Well-rooted, carefully collected seedlings. Puddled and packed in sphagnum moss. Cash with order.

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## LINING-OUT STOCK

IN WIDE ASSORTMENT

Hardy Azaleas, Pink Dogwood, Jap. Red Maples, Old English Boxwood, Lilacs (French Hyb.), Evergreens, etc., in 1, 2 and 3-yr. transplants, at competitive prices. Write for list on printed stationery.

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## TREE PEONIES

Ready to Pot for Spring Sales

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Fairhaven, Mass.

bertson, crown gall of willow, which causes a tumorlike growth, can best be controlled by either exclusion or by growing nonsusceptible varieties. Although antibiotic dips are now being tried at the Waltham field station, no recommendations have been made as yet.

Anthracnose of oak and sycamore generally show up when leaves are about one-half inch in diameter and again when they are about fully grown. Considerable browning of the leaves and severe defoliation may occur. Spraying with phenyl mercury, 7½ per cent lactate or 10 per cent acetate form, was suggested as the best control.

## Handling Trees for Sale

Concluding the afternoon program, C. Powers Taylor, Rosedale Nurseries, Hawthorne, N. Y., discussed the preparation and handling of trees for sale. As important points to remember in digging and balling, he emphasized the following: (1) Inclusion of the maximum number of roots, (2) careful removal of excess soil to reduce weight, (3) clean trimming of damaged roots and (4) skillful burlapping for maximum stability.

At Rosedale Nursery, Mr. Taylor brought out, large or small trees are dug at any time of the season except during a brief period when new growth is soft and succulent.

"We like also to have trees of various sizes dug and on display within the sales area," he commented. When freshly dug stock is displayed in the sales area, the customer can make a choice more conveniently and quickly than when he must select trees in the field.

Where trees are kept in the sales area for a brief period only, no special care is required other than thorough watering. Mr. Taylor suggested that, if trees are kept for extended periods or under hot, dry weather conditions, some protection of the ball aids in reducing the need for watering. Shingleton, sphagnum moss or wet hay may be used.

Mr. Taylor also pointed out that an attractive package is a real sales aid. The use of new or unprinted burlap that has been neatly pinned or tied will greatly increase the eye appeal of trees in the sales yard.

## Ticknor Honored at Banquet

The Thursday program concluded with a banquet highlighted by the presentation of a "money tree" to Dr. Robert Ticknor. Dr. Ticknor, who has been engaged in nursery culture research and active in the Massachusetts Nurserymen's Association.

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5 H.P. — 2 SPEEDS and REVERSE. The smallest-size tiller available for general use, particularly for greenhouse bench work. Very maneuverable. Equipped with clogproof, shockproof digging tools. 15-in.-width cut. Reserve-A-Matic design.



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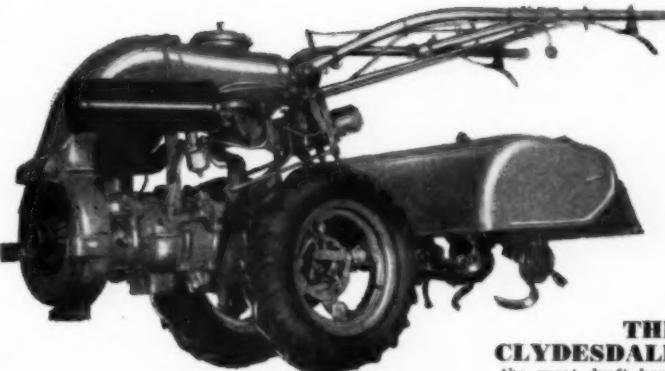
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5 H.P. — 3 SPEEDS and REVERSE. Medium-size tiller for contractor or nurseryman requiring peak production of tilling, extreme maneuverability. Automotive clutch. 20-in.-width cut.



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10 H.P. — 4 SPEEDS and REVERSE. Heavy-duty, rugged tiller, 30-in.-width cut. Automotive-type clutch. This machine is equipped with heavy-duty, nonclogging digging tools.

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# TAXUS LINERS

2-yr., T., \$275.00 per 1000

*Taxus andersoni*  
*Taxus browni*  
*Taxus cuspidata*

*Taxus Halloran*  
*Taxus hicksi*  
*Taxus mooni*

3-yr., T., \$325.00 per 1000

*Taxus hicksi*

4-yr., TT., \$550.00 per 1000

*Taxus cuspidata*

*Taxus Halloran*

## BALLED AND BURLAPPED

*Taxus capitata*, 15 to 18 ins.  
*Taxus capitata*, 18 to 24 ins.  
*Taxus Halloran*, 15 to 18 ins.  
*Taxus mooni*, 15 to 18 ins.

— Also —

*Thuja nigra*, 2½ to 3 ft.  
*Thuja nigra*, 3 to 3½ ft.

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# POTTED ROSES

20,000 Field-Grown (Our Own)

Standard Varieties ..... 85c each

Patented Varieties ..... \$1.00 to \$1.25, 100 lots

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# DANEGGER'S HI-WAY NURSERY, INC.

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# ILEX CONVEXA

One of the largest blocks of hardy, northern-grown Ilex. Heavy, well-sheared plants with exceptionally good color. Prices are each per 100 (25 or more). Write for special quotation on large quantities.

18 to 24 ins. ....	\$3.00
24 to 30 ins. ....	3.75
30 to 36 ins. ....	5.50
3 to 3½ ft. ....	6.50

# ANGELICA NURSERIES

R. D. No. 1

Mohnton, Pa.

ation, has accepted a new position in his home state at the University of Oregon.

In making the presentation, Willard Bond, Wyman's Garden Centers, Inc., Framingham, expressed hope that the Massachusetts nurserymen would not lose contact with Dr. Ticknor, as he will now be in close association with Oregon nurserymen, who have supplied New England with stock not commonly grown in this area.

Guest speaker for the evening was Gilbert E. Merrill, Boston Museum of Science, Boston, Mass. Entitled "Facts and Fancies about Some Woodland Rogues," Mr. Merrill's talk dwelt with small wild animals, birds and reptiles native to New England.

George E. Tuoti, Tuoti Landscape Co., Ridgefield, Conn., opened the Friday morning session with a discussion of trees for general landscape purposes. Mr. Tuoti has had many years of experience in landscape designing for small homes as well as estates and effectively showed how the proper use of plant material can transform the appearance of the landscape scene.

Proper placement of trees and shrubs may effectively conceal serious architectural faults of a house and will add depth and perspective to the landscape scene. He commented also that in revamping old plantings, one should take advantage of large-size plant material which may already be present on the property.

## Recommends Quick Sketches

Mr. Tuoti finds it a great help to be able to visualize and estimate landscape plantings on the spot. Quick sketches, he said, often sell a landscape job more readily than a complete scale drawing, which may leave the client confused.

In discussing trees for the small home landscape, Prof. Harold O. Perkins, University of Connecticut, Storrs, indicated the need for proper placement of trees not only to provide shade but also to frame the house and form a suitable background for the landscape picture.

With contemporary low, rambling structures, more widespread use should be made of medium-size trees such as zelkova, linden, sophora, cladrastis, cercidiphyllum and paper birch.

## Variety in Flowering Trees

In communities where there is an increased interest in more colorful landscapes, one should avoid the tendency to limit plantings to one or two species of small flowering



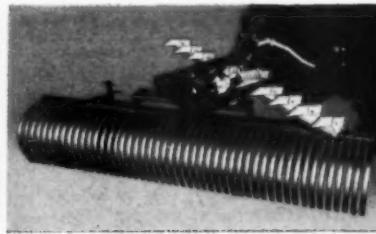
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takes even the most difficult jobs in its stride. Hard-packed soil and rough ridges are easily broken up by the scarifier teeth. Half-buried stones and roots are loosened. The rake then follows to remove the stones and roots while grading the loosened soil into a smooth surface ready to seed. YORK's one-tool mechanization helps you complete all types of landscaping jobs more quickly. RAKE and SCARIFIER can be used in combination or separately.



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EVERGREENS: Canadian Hemlock, Concolor Fir, Hetz Juniper and Austrian Pine.

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SHADE TREES: Maple — Norway, Scarlet and Sugar, Niobe Weeping Willow and Pin Oak.

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## AMERICAN ARBORVITAE

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Each

3 to 4 ft.	\$2.75
2 to 3 ft.	1.75
20 to 30 ins.	
field-grown, T.	1.00

Especially heavy, fine specimens. Available in large or small lots, F.O.B. our nursery. Treated for shipment out of the Japanese beetle zone.

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trees. Professor Perkins showed, by means of colored slides, how such trees as *Cornus kousa*, magnolia, *Oxydendrum arboreum* and *Laburnum vossii* could be used to provide greater variety.

What trees have proved to be undesirable for public plantings? This question was answered authoritatively by Herbert J. Cran, Jr., arborist, Connecticut Light & Power Co., Berlin, Conn.

Listed as unsatisfactory for street use were poplars, willow, silver maple, box elder, Moline elm, Siberian elm, mulberry, horse chestnut, sweet gum and female ginkgo. Trees selected for such use should provide long-term street beauty and at the same time not present expensive maintenance problems.

Mr. Cran emphasized the importance of setting up a master street tree plan in all communities in an effort to select the best tree to fit the site. As an aid in this program, the Connecticut utilities published a handbook entitled "What Tree Shall We Plant?", which gives illustrations of recommended trees and notes the conditions under which they may be grown.

The short course was concluded Friday afternoon with a panel of members from the Massachusetts Arborists Association. Included were Joseph Brine, moderator; Albert Dodge, Dodge Associates, Inc., Wrentham; Richard Halloran, Edward Halloran, Inc., Newton, and Roy Keene, Frost & Higgins Co., Arlington.

In discussing the care of trees after planting, Roy Keene stated that proper watering is of greatest importance. In heavy soils, such as clay, drainage should be provided. Loam should be carefully washed in at time of planting to prevent air pockets.

He also suggested the use of a soil ring around the top of the ball to hold water and the use of a sprinkler or soaker hose for extended periods to be certain moisture will penetrate deep enough. The homeowner, he said, should always be given proper instructions for watering.

Care should be taken to set trees straight. When guy wires or cables are used, these should be checked periodically to prevent any possibility of girdling. In most cases, Mr. Keene stated, guys can be removed from the tree after two or three growing seasons.

With respect to feeding, he suggested only a limited amount of fertilizer or manure mixed with loam or peat moss when planting is done. After one or two growing seasons,

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Collected. Nursery-Grown.

Any quantity available.

1/2 to 12-in. cal.

Beech, Ash, Red Maple, Red

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	Per 100
Mugho Pine 4 to 8 ins., T.	\$20.00
Canadian Hemlock 4 to 8 ins., T.	22.50
American Holly 6 to 10 ins., T.	27.50
Pink-Flowering Dogwood 10 to 15 ins., grafts..... 15 to 24 ins., grafts.....	75.00 85.00

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100 Koster Blue Spruce, 10 to 18 ft.

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# BARGAINS

## In Lining-out Stock

We have not raised the price of most of our small plants in years, but the price of landscape stock is steadily advancing. Plant some of our items now and make yourself some real money.

### HARDY AZALEAS

All azaleas are 2 to 3-yr. transplants, branched, and carry a small ball of soil. **AZALEA AMOENA.** Very hardy evergreen foliage which turns rich bronze in winter. Semidouble, purple flowers. 4 to 6 ins. T. \$15.00 per 100

**AZALEA JAPONICA.** Very hardy. Wide range of color. Red, pink, yellow, etc. Deciduous.

6 to 8 ins. T. \$25.00 per 100

**AZALEA KAEMPFERI.** Seedlings (Japanese seed). Tall-growing, large flowers in various shades of pink and red. Flowers profusely; blooms when evergreen types fail. Deciduous.

4 to 6 ins. T. \$15.00 per 100

**AZALEA SCHLIPPENBACHII.** Considered by many the best azalea of all. Very large pink flowers; very large leaves which turn pink in fall. Deciduous.

4 to 6 ins. T., heavy \$25.00 per 100

**AZALEA WHITE.** Evergreen. Large flowers with a pink blush in throat, similar to but much harder than Azalea Indica Alba.

4 to 8 ins. T. \$15.00 per 100

### AZALEA KURUME

Very hardy. Will stand 19 degrees below zero. Gives a great variety of color and types, from choice whites to orchids, deepest pinks and reds.

2-yr. T., 4 to 8 ins. \$15.00 per 100

### AZALEA HINODEGIRI

Brilliant Red 2-yr. T., 3 to 6 ins. br. \$15.00 per 100 Each plant carries a nice ball of soil.

### LEUCOTHOE CATESBAEII

A good broad-leaved evergreen that grows in dense shade. Lily-of-the-Valley like flowers, reddish-bronze foliage in winter. Contrasts well with Azaleas and Rhododendrons. Fine for flower arrangements.

Each 6 to 8 ins. T. 20c  
8 to 10 ins. T. 25c

### EUONYMUS ALATUS

Cork Bark Euonymus Interesting corklike wings on branches. Red berries, foliage turns bright rose-pink in fall. Really spectacular then.

6 to 9 ins. T. \$10.00 per 100  
10 to 12 ins. T. 15.00 per 100

## ALANWOLD NURSERY

Neshaminy, Bucks Co., Pa.

the punch hole or similar method of feeding should be used outside the ball or original tree pit to aid in the outward spread of tree roots.

Other aids recommended to assure better growth and development of the newly planted tree were the use of mulches such as peat moss or manure to conserve moisture and protection of the tree trunk through the use of burlap or special paper wrapping strips.

### Young Trees Unpopular

Mr. Halloran pointed out that young trees are not popular items in landscape planting. From the buyer's point of view, they seem expensive and look unimpressive for the first few seasons. Nurserymen find they have to overcome the buyer's lack of

### PIERIS JAPONICA

The most beautiful broad-leaved evergreen of all. In summer the color of the foliage is always changing, first red, then pale green and then dark green. In August the flower buds form in graceful racemes for next spring's flowers. White Lily-of-the-Valley flowers appear with the first warm weather, and flowers often last 6 weeks. Grows well in sun or shade. Makes a nice contrast with Azaleas and Rhododendrons.

As far as we know, no nursery has ever had too much *Pieris japonica*. We had over 10,000 18 to 36-in. plants a few years ago, and today we are so oversold on it that we cannot maintain a stock of 1,000 12 to 15-in. plants. It sells on sight and transplants easily at almost any time of the year. It grows rapidly into saleable sizes. Can be used in any kind of planting. Can be transplanted into beds now. Each plant carries a nice ball of soil.

4 to 6 ins. T. \$15.00 per 100  
6 to 8 ins. T. 20.00 per 100

### ILEX CRENATA CONVEXA

(Box *Ballata*)

Owing to our unusual success in propagating this desirable item we offer it at a very low price. Over 150,000 in stock. It is a very choice, very hardy, low-growing evergreen with shiny, dark green, convex, boxwood-like leaves. Grows fast into money, up to 2 feet, and then slows down. Ultimate size 3 feet high and 4 feet wide. Easier to grow than Yews and can be used in sun or shade. Sells on sight. Grows very dense and contrasts well with other evergreens. Makes the perfect low hedge.

Each 6 to 8 ins., 2-yr. T. 15c  
8 to 10 ins., 2-yr. T. 20c

### ENKIANTHUS CAMPANULATUS

Can be transplanted into beds now. For those desiring a different kind of plant for the shrub border or ericaceous plantings, we recommend *Enkianthus campanulatus*. Red stems, dark green leaves, cream to pink bell-like flowers that are useful for flower arrangements and a scarlet fall foliage.

4 to 8 ins., TT. \$15.00 per 100

Send for list of rare plants.

### VIBURNUM AMERICANUM

White flowers. Quantities of red berries.

16 to 12 ins. T. \$2.50 per 100

### JAPANESE BOXWOOD

*Buxus japonica* is a little-appreciated evergreen because it is not well enough known. It grows fast up to 3 ft., shears well and can easily be kept at any size. Its light green, glossy leaves contrast well with other evergreens, and it will grow in sun or deepest shade—very hardy.

6 to 8 ins., 2-yr. T. \$10.00 per 100

### AMERICAN BOXWOOD

Each

4 to 6 ins. T. .10c

6 to 8 ins. T. .15c

### ENGLISH BOXWOOD

Part of the charm of many old gardens is produced by the edgings of Old English Boxwood. Plant some in a bed 3 x 8 ins. and in a couple of years you will have a stock for your customers. Its appeal is irresistible. It can be transplanted now.

3 to 4 ins., T. \$10.00 per 100

### TAXUS TRANSPLANTS

Each 6 to 8 ins. .20c

*Cuspidata* .20c

*Media browni* .20c

*Media hicksii* .25c

### CHINESE MAGNOLIAS

All on own roots.

*Soulangeana*, pink; *Soulangeana nigra*, dark purplish-pink; *rustica rubra*, pink; *alba superba*, white; *Pink Superba*, pink; *fennellii*, good pink; *stellata* (Star Magnolia), semidouble pure white; *alexandrae*, large, late pink. All 2-yr. 12 to 18 ins. and on own roots, .75c each. Minimum order, 5 of one kind.

## DO YOU NEED A BETTER

### TAXUS CAPITATA?

#### OF COURSE YOU DO!

We have it in our *TAXUS CUSPIDATA SPAETH*

Available in 2-yr., bed-grown seedlings, \$37.00 per 100; 250 or more, \$35.00 per 100.

DON'T BE MISLED—THIS IS A GOOD ONE—HARDY, TOO.

THE VAN HEININGEN NURSERIES

Deep River, Conn.

**OPERATING A GARDEN CENTER**, by John J. Pinney. Articles reprinted from American Nurseryman. 128 p., illus. (1957) \$3.00

American Nurseryman, 343 S. Dearborn St., Chicago 4, Ill.

# BENNETT'S NURSERY

R. D. 1 Homer City, Pa.

*Propagators and Growers of Quality Nursery Stock*

	Per	Per
	100	1000
<b>Scotch Pine—Austrian Hill Strain</b>		
3-yr., S., 8 to 16 ins...	\$ 5.00	\$ 30.00
2-yr., S., 4 to 8 ins...	4.00	25.00
2-yr., S., 4 to 6 ins...	3.00	20.00
2-yr., S., 2 to 4 ins...	2.50	10.00
<b>Scotch Pine—French Strain</b>		
3-yr., S., 6 to 12 ins...	5.00	30.00
3-yr., S., 3 to 5 ins...	3.50	22.00
2-yr., S., 3 to 6 ins...	3.00	20.00
<b>Austrian Pine</b>		
2-yr., S., 4 to 8 ins...	4.00	25.00
3-yr., S., 5 to 10 ins...	5.00	32.50
<b>White Pine</b>		
2-yr., S., 3 to 5 ins...	4.00	25.00
<b>Norway Spruce</b>		
(2-0), 2-yr., 2 to 3 ins...	2.50	15.00
(2-0), 2-yr., 3 to 5 ins...	4.00	25.00
(2-1), 3-yr., 4 to 7 ins...	6.00	40.00
<b>Colorado Blue Spruce</b>		
(2-0), 2-yr., 3 to 6 ins...	4.00	25.00
(2-1), 3-yr., 3 to 6 ins...	7.50	50.00
<b>Hemlock</b>		
3-yr., T. ....	6.00	40.00
4-yr., T. ....	12.00	100.00

Complete list on request

# TAXUS

## Thick, Sheared Specimens

### Taxus cuspidata capitata

5 to 6 ft. 6 to 7 ft.

### Taxus cuspidata nana

6 to 7-ft. spread, 7 to 8-ft. spread

Just the plants for industrial buildings.

### Large Selection of Landscape Material

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### LANDSCAPE ARCHITECTS

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interest and knowledge in order to sell them.

Mr. Halloran emphasized the importance of making the planting pit at least 24 inches larger than the size of the ball when one is setting out a young tree. The sides should be cut straight and a soft bottom left in the pit. He feels that there is a definite advantage in setting trees at a slightly higher level than that at which they were originally planted.

Albert Dodge, heading up the Massachusetts Certified Arborists Association, discussed requirements necessary to become an association member. In explaining the services offered by a qualified arborist, he showed how pruning, feeding, spraying and cabling are all of great value, enhancing the beauty of shade and forest trees, increasing their vigor and prolonging their life.

Mr. Dodge pointed out that it would be to the mutual advantage of arborists and nurserymen to cooperate in the promotion of tree-planting programs for Arbor day, historic trees, memorial trees and living Christmas trees. He hoped also that nurserymen would join the arborists in their opposition to the use of salt and chlorides on highways, since use of these chemicals has caused serious damage to many roadside plantings.

### MARYLAND SHORT COURSE

[Continued from page 12]

soil acacias on alkaline soil acacias, in order for the former to grow successfully in alkaline soil, was of interest to the plant propagators present. This technique was accomplished by inducing mother plants growing in acid soil in nursery rows to produce long whips. These whips were inarched onto stock growing in alkaline soil in pots on a platform about four feet high placed around the plants.

The morning session ended with reports on research of interest to nurserymen being conducted at the University of Maryland. Dr. Lee J. Enright, department of horticulture, University of Maryland, summarized his work on rooting larger cuttings.

Quite by accident, he related, it was discovered that several species of evergreens of commercial value produced roots when 2-year-old and even 3-year-old wood was used rather than the customary current-season's wood. Results of this work, Dr. Enright said, had been published in the American Nurseryman magazine and the Journal of Forestry, and he could supply reprints to anyone as long as the supply lasted.

Dr. Warren T. Johnson, depart-



TRY OUR  
SELECTED STRAINS  
**ILEX CRENATA**  
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**AND**  
**TAXUS CUSPIDATA**  
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—THEY ARE TOPS!

## GROUND COVERS

100 1000

<b>Ajuga reptans</b>		
Field-grown .....	\$15.00	....
<b>Ajuga reptans rubra</b>		
Field-grown .....	15.00	....
<b>Pachysandra terminalis</b>		
1-yr., field-grown .....	5.00	\$ 45.00
(\$40.00 in lots of 5000 or more)		
2-yr., field-grown .....	7.50	70.00
2 1/2-in. pot-grown .....	11.00	100.00
<b>Euonymus radicans coloratus</b>		
2-yr., field-grown .....	18.00	100.00
<b>Hedera helix</b>		
2 1/2-in., pot-grown .....	12.00	115.00
<b>Hedera helix baltica</b>		
2 1/2-in., pot-grown .....	13.00	120.00
<b>Loniceria japonica halliana</b>		
2 1/2-in., pot-grown .....	10.50	95.00
<b>Vine minor</b>		
2 1/2-in., pot-grown .....	13.50	125.00

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### Monrovia's New Lantana Patents

This organization is now licensed to grow the six new Trailing Lantanas (all under patent) developed by Monrovia. We are concentrating on the sale of these exceptional plants in New England, New York, New Jersey, Pennsylvania, Maryland and Virginia and, of course, will ship to economical midwest and southern points. These new trailers are all very useful in cold climates for hanging basket and tub work. Baskets in various stages of growth will be available at wholesale at the nursery in April and May. Please ask for details.

### WHITE FLOWER FARM

Litchfield 40, Conn.

ment of entomology, University of Maryland, summarized briefly recent research of his department. In nursery inspections and surveys conducted in both 1957 and 1958, Dr. Johnson found the following insects to be of the greatest occurrence and importance: Azalea lace bug, spider mites, azalea white fly, bagworm, boxwood leaf miner, boxwood psyllid, hawthorn lace bug, holly leaf miner, euonymus scale and whitepine aphid.

Of these 10 major pests, two were selected for research investigations. The azalea lace bug was selected, since it was found to be a problem in practically all nurseries, and research was aimed at developing a 1-shot control using some of the systemic insecticides. One result of this project indicated that the granular insecticides are superior in effect to the sprays. The insecticides cause objectionable odors and possible retardation of the rooting of cuttings, however, so that results are far from the point at which recommendations can be made. Nurserymen, Dr. Johnson stated, should continue to use malathion for lace bug control unless otherwise advised.

#### **Euonymus Scale**

The euonymus scale, ninth commonest nursery pest in Maryland, was also selected for study. Many nurserymen are practically abandoning certain varieties of euonymus, because of their susceptibility to scale infestations and the difficulty of control. It may be some time before a solution to this problem can be found. The systemic insecticides used in both spray and drench methods have not given adequate control. Dr. Johnson reported, however, that the research is being continued.

The afternoon session opened with a brief report by Dr. Conrad B. Link, horticulture department, University of Maryland, on the university's project on container-grown plants, which is conducted in cooperation with the Maryland Nurserymen's Association. Hundreds of young plants donated by Maryland nurserymen are being grown in four different mixes of soil, loam, sand and peat and fed with a completely soluble fertilizer.

Five species, including dogwood, pyracantha, taxus and holly, are being tested. If successful, the project can be enlarged to test lighter-weight materials in the soil mixes, different soluble fertilizers, slower-acting organic fertilizers and a wider selection of plants, Dr. Link said.

In discussing new developments in

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(2-0), 2-yr., S., 3 to 5 ins.	3.50	20.00
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plant propagation, James Wells, James S. Wells Nursery, Inc., Red Bank, N. J., said that propagators are gaining a better understanding of principles that have been known for some time. Modern methods of misting, he asserted, are nothing more than a means of effecting water conservation, the same principle that has prompted growers to build greenhouses, to spray down the house, to wax the cuttings or to use plastic films. There probably is no one best method of reducing water losses, Mr. Wells observed; all of them work satisfactorily when properly used.

### Skill Remains Essential

Though hormones, controlled use of water and various media are helpful, he stated, the skill of the propagator is still required to produce good plants. The best propagating technique is what works best for you, Mr. Wells reported. If your rooting is successful, do not try to change to something supposedly better. If your rooting is not successful, it would be best to experiment with different media.

Mr. Wells advised the nurserymen to keep accurate records showing how many cuttings were stuck and how many actually rooted. Usually, Mr. Wells continued, a larger cutting will root better and quicker and make a larger plant than a smaller cutting. Larger cuttings, however, are not always available, and one may not have space available in the greenhouse to accommodate them.

Mr. Wells, who illustrated his talk with slides and live plants, expressed the thought that younger cuttings under mist may be more successful than cuttings taken later in the year. Many growers still follow the old practice, he said, of taking cuttings late, forgetting that they can be rooted earlier with mist. This earlier rooting allows for earlier hardening-off and permits the plant to endure the winter more successfully.

Charles W. McComb, entomologist, state board of agriculture, University of Maryland, reported that scales, as a group, continue to be one of the major pest problems of Maryland nurserymen. There are two relatively new scales in Maryland that nurserymen should be on their guard against, Mr. McComb advised.

One of these two, unfortunately, has already become established in the state. There is actually no approved name as yet for this pest but, since it is primarily found on hemlock, it is often referred to as the hemlock scale. There are two known

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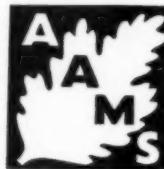
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infestations near Baltimore; other local infestations occur in Connecticut, Pennsylvania, Ohio and New Jersey. The pest attacks yews and has been found on balsam fir as well as hemlock. Trees infested with this scale take on a whitewashed, mealy appearance, especially in the spring and fall, because of the waxy scale secretions.

### Difficult to Control

Control of this pest is difficult. First, the female is well protected against any chemical sprays or dusts because of the waxy secretions. Also, it lives as an adult under the skin of the last molt, which acts as a protecting shell much like a turtle's. Only half the room in this capsule, however, is occupied by the female, the other half being filled with eggs, which remain there protected until they hatch.

Second, control is difficult because crawlers are produced continuously throughout the year. Field and laboratory studies have shown crawlers and mature male and female scales to be present at all periods of the year, with population peaks reached in the spring and fall.

DDT and malathion mixtures, Mr. McComb continued, obtain good kills of crawlers, but the number of applications needed to bring

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about complete control makes the procedure highly impractical. Until a good method of control can be found, it is most important that this pest be kept from spreading outside areas known to be infested. Infested plants outside these areas should be destroyed promptly, Mr. McComb advised.

The entomologist also warned the nurserymen about a so-called wax scale that has been found several times in Maryland and should be kept from spreading. The wax scale, Mr. McComb noted, should not be confused with the cottony-cushion scale, which is similar in appearance. This new pest has a number of different hosts; in Maryland it has been collected on hemlock, camellia and holly.

### Shipments Should Be Checked

Wax scales are well established in Florida and are known to occur in the Norfolk area of Virginia. Shipments of plants from the southeastern states should be carefully checked for this pest. In one case, a holly that was heavily infested was cleared of wax scale by DDT treatment. Good coverage of the entire plant, including the trunk and branches, is necessary for control, Mr. McComb concluded.

The last speaker of the day was Prof. Robert P. Meahl, horticulture department, Pennsylvania State University, University Park, who showed slides to illustrate his discussion of better plants and their uses in the landscape. Nurserymen, the professor stated, should provide their customers with materials having long periods of attractiveness. These should be hardy and should have a relatively long flowering period, good form and attractive foliage.

Professor Meahl said that certain plants are outstandingly superior in landscape values over long periods of time and that nurserymen have a responsibility in educating their customers to appreciate these superior values.

Two short films in sound and color were shown during the short course through the courtesy of Dudley A. Raine, plant pest control division, United States Department of Agriculture, Elkhridge, Md. The first showed the history of the gypsy moth in the United States, its life cycle, destructive habits and methods of control. The second, on the Japanese beetle, depicted the life history of this damaging pest and methods of fumigating and treating plants for shipment outside the beetle quarantine zone.

The short course ended with a

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brief business meeting of the Maryland West chapter, American Association of Nurserymen.

## HEAD MICHIGAN GROUP

The Kalamazoo Valley Landscape and Nurserymen's Association held its 13th annual election of officers February 19 at the Harris hotel, Kalamazoo, Mich. Re-elected as president of the association was Robert Scovie, Inland Orchards & Nurseries, Marshall. Other officers for the coming year are Paul Armintrout, Armintrout's Evergreen Nursery, Allegan, vice-president; Cliff Walters, Dutch Mountain Nursery, Augusta, secretary, and Henry De Visser, De Visser Bros. Landscaping, Kalamazoo, treasurer.

Andy Peck, Peck's Landscape Service, Battle Creek, was elected to a 2-year term as a K. V. L. N. A. director, and Harley D. Wedel, Wedel's Nursery & Garden Center, Kalamazoo, was elected to the board of directors of the Michigan Association of Nurserymen for two years. Also discussed at the meeting were final arrangements for the home garden clinic scheduled for March 13 and 14 at Battle Creek.

H. D. W.

## ADDS RABBIT REPELLENT

The Medical Service Corp., Chicago, Ill., announces that it has added the rabbit repellent called Z.I.P. to its line of pest repellents. Supplementing a rabbit repellent used on

dormant plants during the winter—Ringwood Rabbit Repellent—that the company markets, Z.I.P. is intended for use on young vegetables and flowers all through the growing season. The product is sold in aerosol containers for convenient spray application.

PLANNING a nursery to be located in Johnson county, near Kansas City, Mo., are Mr. and Mrs. Ira Stein. The development will be called Arbor Nall Farm.

TWENTY acres occupied at Omaha, Neb., by the Marshall Nurseries, Arlington, Neb., have been sold to the Hinky Dink Stores for the erection of a shopping center.



# CHARLIE CHESTNUT



## JUST A DAY IN AUGUST

You never know what the day will bring forth as the members well know. Take one day last August when I got to work in the morning, I went to the office where Emil generally starts the day, but he wasnt anywhere in sight. I found him out in back of the greenhouse throwing feed to his chickens. Generally his wife does that. Emil has raised Rhode Island Reds since I have known him, they're the best all-around breed Emil says. He used to take a lot of prizes when they had the poultry show in Riverbend years ago; one time he showed at the county fair in Lake Park.

Emil had on a blue conductors coat with brass buttons that was much too big for him and a conductor's cap that was two sizes too small. I hadnt seen the outfit before so I says, "Where in the world did you get that outfit, and when does the next train leave for Lake Park?"

"This hat and coat belonged to George Blakely; he was before your time, I think Chas., he says. "When George died several years ago, his wife left his hat and coat in the front closet. It hung there for a dozen years. One day I was there trimming her privet hedge, she was hanging stuff on the clothes line to air out and stood there looking over this coat and hat and she says to me would I like to have the outfit. Thats how I come to get the stuff. I remember George used to play in the firemans band here in Riverbend. He played the tuba. Later on when the band went to South Bend, he had to give up the tuba because of a sore lip and he took to playing the glockenspiel for a while."

I could see that Emil was in a reminiscent mood that morning, thinking of the old days as he so often does nowadays as he is getting along in years. So I didnt ask him what was the order of the day for me at the nursery.

"One time I put in two Sycamores for George," Emil continued, "when I seen a lot of cages of rabbits out in back. He had six kinds, there was pink eyes, catface, Belgians, etc. George was anxious to get out of the rabbit business as he was away a good deal. He used to run between Lake Park and Kankakee on the

Illinois Central. His wife had to do most of the feeding and taking care of the rabbits. First thing I knew I was in the rabbit business and I took the whole outfit home. I forgot what the deal was, but I seem to remember giving him a little cash and a few items of nursery stock," he says.

"How long was you a rabbit king?" I says, "there wasnt no rabbits on the place when I started to work."

"Lets see," says Emil, "it must have been three years or so. Emma got so she was so attached to the rabbits she would never eat one. I

sold a few but there wasnt no big scramble for rabbits in them days and I was getting tired of the whole deal. One day old Frank Westrick from Otter Creek dropped in to make a deal for honeysuckle cuttin's. Me and Frank was doing a lot of trading at that time and the first thing I knew Frank had traded me out of the rabbit business, lock, stock and barrel. He come down with his truck and carted the whole lot home with him. That's one of the hutchess there in back of the corn crib that's full of old clay pots."

As Emil was thru with the chickens, we walked over to the office. "I

## QUALITY LANDSCAPE ITEMS

	Each	Each
	Per 10	Per 100
<b>Taxus media andersoni</b>		
15 to 18 ins., B&B .....	\$3.50	\$3.25
18 to 24 ins., B&B .....	4.25	4.00
<b>Taxus cuspidata capitata</b>		
18 to 24 ins., B&B .....	4.50	4.25
24 to 30 ins., B&B .....	5.25	5.00
<b>Ilex convexa</b>		
15 to 18 ins., B&B, heavy, sheared .....	2.50	2.25
18 to 24 ins., B&B, heavy, sheared .....	3.00	2.75
24 to 30 ins., B&B, heavy, sheared .....	3.75	3.50
<b>Ilex rotundifolia</b>		
15 to 18 ins., B&B, heavy .....	2.25	2.00
18 to 24 ins., B&B, heavy .....	2.75	2.50
24 to 30 ins., B&B, heavy .....	3.25	3.00
30 to 36 ins., B&B, heavy .....	3.75	3.50
<b>Cotoneaster apiculata</b>		
24 to 30 ins., B&B, heavy .....	3.25	3.00
<b>Euonymus alatus compactus</b>		
30 to 36 ins., B.R., heavy .....	1.75	1.50
No winter burn. Japanese beetle certificate furnished. Truck delivery. Part loads can be arranged.		

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(including New  
Clavey's Dwarf)

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French Pussy Willow)

Viburnums, in variety

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of distinctive  
beauty through-  
out the sum-  
mer.

No winter in-  
jury showing  
up to date this  
year.



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Viburnums

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ready for the field.

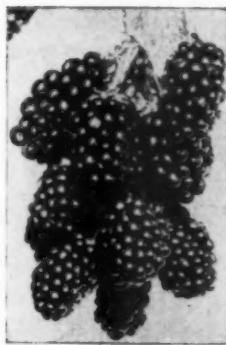
Taxus capitata, hicksi and

hunnewelliana

Thuja Woodward Globe

Juniper, Irish, Swedish and Greek

## NEW 'MIDNITE' BLACKBERRY



Introduced last year because of  
its large, high-quality berries; its  
fine fruiting performance and  
strong, upright, thrifty cane char-  
acteristic in comparison to other  
blackberry varieties.

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BERRY PLANTS

Send for Complete Trade List and Prices of Fruits, Ornamental Shrubs, Vines, Evergreens, Special Mail-Order Items and Lining-Out Stock.  
We invite you to drive over to our nursery to see this stock.

was going to cultivate today," Emil says, "but Victoria has trouble with her stifle joint again and she has got to be rested for a day or two. Speaking of old Frank Westrick," he continued, "I got a good notion to drive up and see him about some privet cuttin's. Frank has got a hedge clean around his place and he aint making cuttin's anymore. After we get the mail we'll drive up to Otter Creek."

There wasnt nothing in the mail but a statement from John Bushbottom, which Emil threw in the waste basket. "I aint paying John for them Soft Maples, they was all as crooked as John himself," Emil says.

Any of the older members who can remember back to the days when Frank used to go to the convention will remember old Frank. Around home he always wears a pair of rubber boots, two pair of pants and a vest that comes almost down to his knees. He is a very short man and always has about two weeks growth of gray stubble on his face. His felt hat I'll bet is the same one he wore to the worlds fair in 1892. Frank is the old school nurseryman. He always raises a few pigs, farms with horses and sells off a lot or two when he gets short of money. The town

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	Each
18 to 24 ins.	\$2.00
24 to 30 ins.	2.50
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36 to 42 ins.	3.25
42 to 48 ins.	3.50

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Heavy Landscape Material

Per	Per	Per
10	100	1000
1½ to 2 ft.	\$1.00	\$0.90
2 to 3 ft.	1.35	1.15
3 to 4 ft.	1.70	1.35
		1.25

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## CHRISTMAS TREE AND ORNAMENTAL LINERS

### SCOTCH PINE

	100	1000	25,000	100,000
(2-0), 2 to 4 ins.	\$2.50	\$13.00	\$11.50	\$10.00
(2-0), 3 to 6 ins.	3.50	20.00	17.50	15.00
(2-0), 4 to 10 ins. Available in all except French	4.00	20.00	18.00	16.00
(2-0), 6 to 15 ins. French only	6.00	30.00	27.50	25.00

### AUSTRIAN PINE

(2-0), 3 to 6 ins. heavy	3.50	19.00	17.00	15.00
(2-0), 2 to 6 ins.	3.50	20.00	18.00	16.00

### COLORADO BLUE SPRUCE

(2-0), 2 to 6 ins.	3.50	20.00	18.00	16.00
(3-0), 2 to 6 ins.	5.00	25.00	22.50	

### WHITE SPRUCE

(2-0), 2 to 6 ins.	3.50	20.00	18.00	16.00
(3-0), 2 to 6 ins.	5.00	25.00	22.50	

### NORWAY SPRUCE

(2-0), 2 to 6 ins.	3.50	20.00	18.00	16.00
(3-0), 2 to 6 ins.	5.00	25.00	22.50	

### AMERICAN ARBORVITAE

(2-0), 1 to 3 ins.	3.50	20.00	18.00	16.00
(3-0), 3 to 6 ins.	5.00	25.00	22.50	

TAXUS CUSPIDATA	Each per 100	Each per 1000		
R. C.	\$.11	\$.10		
1-yr. frames	.22	.20		
2-yr. frames	.30	.28		

### TAXUS BROWNI

R. C.	.11	.10		
1-yr. frames	.22	.20		
2-yr. frames	.30	.28		

### JUNIPERUS GLAUCA HETZI

R. C.	.11	.10		
1-yr. frames	.21	.20		
2-yr. frames	.27	.26		

### WOODWARD GLOBE ARBORVITAE

R. C.	.11	.10		
1-yr. frames	.21	.20		
2-yr. frames	.27	.26		

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25 at 100 rate; 250 at 1000 rate; 10,000 at 25,000 rate.  
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**Magnolias — True Japanese Maples**  
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**Langley, B. C., Canada**

Clonal Rootstock for Fruit Trees.  
M., M. 104, 106, 109, 111, M. XXV, E. M.  
II, Mazzard F. 12/1.

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Lining-out Stock a Specialty

Write for Trade List

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Established 1864 : STURGEON BAY, WIS.

has grown up all around him and he could sell out anytime for a subdivision. He has known Emil for 40 years and together they make a great pair. Frank aint plain crooked like John Bushbottom, but he is shrewd and a person has to be on their toes when there is a deal on.

Me and Emil drove up on the old road and come in from the back at Franks place. Thats the gravel road that runs past the Norwegian Cemetery; its shorter by a couple of miles, Emil claims.

"Hello Emil!, Hi Chas." Frank says as we drove in. Frank was butchering a hog and already had it hung up ready to carve up. "Just in time to help me with the cutting up," he says to Emil. Emil used to raise pigs himself and he is an old hand at butchering, so I left the two of them with the pig and went off by myself to have a look around the place.

Frank has twenty or more buildings of one sort and another, chicken houses, pig pens, horse barns, tool shed storage with lean-to's on every building full of old broken machinery and tools of one sort or another. He keeps three horses; tractors is the ruination of nurserymen, Frank always says.

When I got back to Emil and Frank they were all thru with the butchering. Frank had invited me and Emil to stay for dinner. You cant hurry Frank and it dont pay to start any business conversation for at least a couple of hours. So after dinner, Emil lighted his old corn cob and settled down to make a deal.

"Frank, you aint trimmed your privet for two or three years, how about me and Charlie giving it a good trim, we might get a few good cuttin's," Emil says.

"By George, you're too late, Emil," he says. "I already promised Jake from the F&M nursery; he was in here last Tuesday. Sorry you didnt come first as I would sooner give 'em to you as to give 'em to Jake. He is going to let me have all the Chinese Elm I want. All I want is a couple of hundred. People dont call much for them anymore. Lots of folks dont know if the Dutch Elm disease is for Chinese Elms and you cant talk 'em out of it."

Emil never said nothing about the privet deal, but he says to Frank, "Whatever happened to the rabbits you got from me years ago, I don't see any around now Frank?"

"How'd you ever think of them rabbits, Emil?" he says. "Why I aint had any rabbits for 25 years, closer to 30 years I guess. I got down to 20

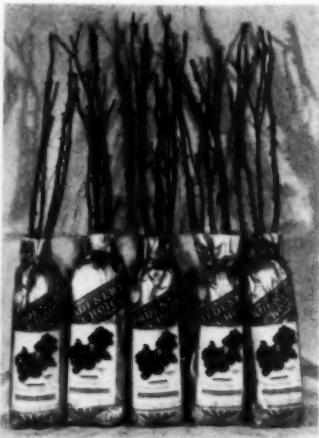


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I wish I had it back. Maybe I can talk Doc out of it again."

"I got one liver and white left Emil, good voice but a little slow yet. I'll let him go for \$35.00 but I ought to get a hundred at least," says Jake.

"Lets see him," says Emil, "I might take him."

Jake finished his greasing and took us around to the barn where he keeps his dogs. "Here he is," says Jake, "Mighty nice prospect for coons."

"Ill give you \$10.00 cash," says Emil.

"You bought it," says Jake, "want to take him with you?"

Emil borrowed \$4 from me and we put the dog in a box and set him in the car. Emil was real pleased.

"Jake, how are you fixed for privet cuttin's," says Emil, "have you got any to trade?"

"Any amount you want Emil, you just name it. I got a deal with the court house in Lake Park. I'm going to trim their whole hedge, 1200 feet of it."

"Well, I'll check up and let you know," says Emil. And with that final remark we started for home.

When we got down the road Emil turned to me and he says, "Nurserymen are a queer lot Chas. Now you wouldn't think old Frank was such a liar, would you now? A pretty cagey old timer if you ask me."

### LONG ISLAND SHOW

[Continued from page 9]

ported from Italy, but with a different treatment. The steps leading to the patio were flanked by two circular Fantasi tile walls. One contained shrubs, and the other was a small pool with a multiple-tiered spray fountain. The plants in the garden included Parson's juniper, ajuga, dianthus, Snow azaleas, Coral Bell azalea, English ivy and tulips.

Walton Scherer, Northport, L. I., had his usual interesting display of aquatic plants and running water. Two plastic pools with underwater lighting were set in a soothing natural setting connected by a small stream. The first pool was fed by a small waterfall. An interesting feature was a 60-year-old handmade Japanese lantern four feet high fashioned from one stone. The plants consisted of wild flowers, water lilies, creeping water hyacinths, mountain laurel, Sagittaria sinensis and spiral palm.

Atlantic Avenue Nursery, Inc., Freeport, L. I., reproduced a small flagstone patio and house facade. A unique fish fountain spouted water

## SPECIALS

### RHUBARB

	Per 1000
Canada Red, No. 1 division	\$200.00
MacDonald, No. 1 division	200.00
Medium grade on both varieties	140.00
Valentine (newest Canadian introduction), No. 1 division	400.00

### COTONEASTER ACUTIFOLIA

12 to 18 ins., S.	55.00
12 to 15 ins., lightly br.	60.00
2 to 3 ft., T., well-br.	300.00

### CORKSCREW WILLOW

( <i>Salix matsudana tortuosa</i> )	Per 100
6 to 8 ft.	\$12.50
5 to 6 ft.	10.00
4 to 5 ft.	8.00

### SUMMIT NURSERIES, INC.

Stillwater, Minn.

### QUALITY NURSERY STOCK FOR SPRING

#### *Taxus hicksii*

1 1/2 to 2 ft., 2 to 2 1/2 ft.

#### *Taxus cuspidata*

2 to 2 1/2 ft., 2 1/2 to 3 ft.

#### *Juniperus pfitzeriana*

2 to 2 1/2 ft., 2 1/2 to 3 ft., 3 to 4 ft.

#### *Juniperus pfitzeriana compacta*

2 to 2 1/2 ft., 2 1/2 to 3 ft.

#### *Juniperus hetzii*

2 to 2 1/2 ft., 2 1/2 to 3 ft., 3 to 4 ft.

#### *Juniperus Andorra*

1 1/2 to 2 ft., 2 to 2 1/2 ft., 2 1/2 to 3 ft.

#### *Arborvitae, pyramidalis*

3 to 4 ft., 4 to 5 ft., 5 to 6 ft., 6 to 8 ft.

#### *Arborvitae, American*

3 to 4 ft., 4 to 5 ft., 5 to 6 ft.

#### *Norway Spruce*

2 to 2 1/2 ft., 2 1/2 to 3 ft., 3 to 4 ft., 4 to 5 ft.

#### *Colorado Spruce*

2 to 2 1/2 ft., 2 1/2 to 3 ft., 3 to 4 ft., 4 to 5 ft.

#### *Douglas Fir*

4 to 5 ft., 5 to 6 ft., 6 to 8 ft.

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\$12.00 per 100; \$100.00 per 1000.

### BEARDSLEE NURSERY

Perry, Ohio





## CORKSCREW TREE

(*Salix Matsudana Tortuosa*)

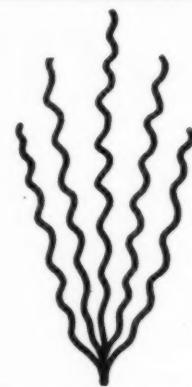
### Oriental Horticultural Curiosity

From the Hupeh Province of East Central China. Branches both large and small grow upward with an exotic corkscrew twist.

This tree is also known in common parlance as Corkscrew Tree, Corkscrew Willow, or Contorted Hankow Willow.

4 to 5 ft., \$2.50 each, \$25.00 per dozen

Dormant, heavy field liners, \$30.00 per 100, \$250.00 per 1000. Potted liners, late spring only, \$30.00 per 100, \$250.00 per 1000.



**BEARDSLEE NURSERY**

Perry, Ohio

scape. The feature of the garden was a 3-foot waterfall and a pool that represented a large lake. There was an absence of turf areas. In their place were pebbled areas with rock outcroppings. A 25-year-old dwarf pine 18 to 24 inches high attracted attention. Other plants were azaleas, flowering cherries, mountain laurel, rhododendrons, Japanese black pines and white pines.

### Modern Effect

Goldberg & Rodler, Hempstead, L. I., staged a garden with a modern flair. A redwood seat wall, with an interesting vertical pleated effect leading up railroad-tie steps to a small raised patio, attracted interest. The lower level consisted of molded concrete blocks set in pebbles. Plant materials included an *Enkianthus campanulatus*, an espaliered apple tree, tubbed tulips and Japanese holly.

The Homestead Gardens, Rockville Centre, L. I., displayed a restful garden area with an informal stream and a flagstone patio set in sod as features. The plant materials, forsythia, clump birch, tulips, hyacinths, *Pieris floribunda*, rhododendrons and azaleas, gave a restful feeling to observers.

Port Washington Nursery, Inc., Port Washington, L. I., exhibited a late spring rock garden faced with a slightly geometric flagstone patio and a flagstone wall. Pines, spruces, hemlocks, rhododendrons, flowering crab apples, clump birch, pachysandra, bulbs and rock garden plants completed an attractive corner garden.

Bensch's Florist & Nursery, Huntington, L. I., displayed an attractive indoor garden with a precast concrete block patio complemented by two large bougainvilleas. English ivy, tulips, tubbed arborvitae and succulent plants completed this neat little planting.

The National Association of Gar-

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#### Our Introductions

**APRICOT GLORY HYBRIDS** (Apricot Shades)

**RED KING HYBRIDS** (Flame-Red Shades)

**YELLOW BOUQUET HYBRIDS** (Yellow Shades)

	Each	Each	Each
12 to 15 ins., B&B	\$2.50	\$2.25	\$2.00
15 to 18 ins., B&B	2.75	2.45	2.20
18 to 24 ins., B&B	3.25	2.90	2.60

Field-grown, bushy, heavily budded plants. 95 per cent true to color.

Also choice deciduous and Evergreen Azaleas.

No shipping. Please send your truck.

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Transplanted Field-Grown Stock

	Per 100
800 Vinca Bowles	\$17.50
200 Phlox subulata Elaine Alexander	17.50
200 Phlox Mesalusa (Creeping)	17.50

New Minnesota Chrysanthemums	
3-in. pots	
Tonka, large, double yellow	30.00
Prairie Moon, large double white	30.00
Send for complete list, including lining-out stock.	

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Catering to midwestern landscape  
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Shade Trees—Shrubs—Evergreens.  
Write for complete Wholesale List

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Ornamental Evergreens  
Deciduous Trees  
Shrubs and Roses

Write for our current trade list.

**The Kallay Brothers Co.**  
1251 Madison Ave. PAINESVILLE, O.

deners, Long Island branch, displayed a small colorful garden containing a still-water pool. This garden had a wealth of plant materials, including azaleas, lilies in variety, forsythia, cowslip, junipers, pieris and white pine.

#### Holly Planting

Holly-by-Golly, St. James, L. I., had a holly display of many species and varieties. Included were named varieties of English, American, Chinese and Japanese hollies. Also included were fine specimens of *Ilex pernyi* and many variegated hollies.

Dauernheim Corp., Wantagh, L. I., exhibited colorful azaleas in a mass display. Wheatley Gardens, Greenvale, L. I., displayed succulent plants, orchids and cut flowers.

The Long Island Lighting Co. displayed lighting methods for outdoor living at night. All of the construction and plant features were illuminated with unique fixtures. The garden contained a pool and a flagstone dining patio. Plants enhanced by the lights were hemlocks, forsythia, Japanese holly, azaleas and rhododendron.

The Nassau county department of parks exhibited a formal display of 1,000 red tulips in four beds with used brick walks and a center fountain feature. The strictly formal garden was bordered with a low, sheared Hicks yew hedge. This display was outstanding because of its simplicity and neatness.

#### University Entry

The ornamental horticulture students of the State University Agricultural and Technical Institute, Farmingdale, L. I., also displayed an unusual garden. The garden featured a large raised reflection pool surrounded by azaleas and faced with narcissi. The small patio below the pool was complemented by large tubbed azaleas. The beds and pool were of a straight-line construction, all curved lines being contributed by the plants. The plant materials consisted of pieris, mountain laurel, a Hicks yew hedge, two large American arborvitae and many azaleas from a collection owned by the department.

The Nassau county extension service and the ornamentals research laboratory of Cornell University, Ithaca, combined to present an educational exhibit geared to answer gardeners' problems. Information and literature in the form of bulletins were available pertaining to insect and disease pests and other problems the visitors might have wished solved.

# SPRING, 1959

A few items in quantity.

<i>Biota aurea nana</i>	<i>Maple, Silver</i>
<i>Juniper, canaeriti</i>	<i>Maple, Sugar</i>
<i>Juniper, depressa plumosa</i> (Andorra)	<i>Oak, Pin</i>
<i>Juniper, glauca</i>	<i>Prunus Newport</i>
<i>Juniper, keteleeri</i>	<i>Prunus Thundercloud</i>
<i>Juniper, Pfitzer, extra good</i>	<i>Redbud</i>
<i>Juniper, stricta</i>	<i>Sweet Gum, TT, once root-pruned</i>
<i>Taxus cuspidata</i>	<i>Tulip Tree</i>
<i>Euonymus alatus</i>	<i>Willow, Thurlow</i>
<i>Euonymus alatus compactus</i>	<i>Almond, Pink</i>
<i>Euonymus erectus</i>	<i>Currant, Alpine</i>
<i>Euonymus patens</i>	<i>Barberry, Green</i>
<i>Euonymus vegetus</i>	<i>Barberry, Red</i>
<i>Ash, European Mountain</i>	<i>Barberry, mentorensis</i>
<i>Cornus florida</i>	<i>Cotoneaster divaricata</i>
<i>Cornus rubra</i>	<i>Forsythia</i>
<i>Elm, Chinese</i>	<i>Honeysuckle Bush</i>
<i>Crab Apple, Flowering</i>	<i>Philadelphus aureus</i>
<i>Locust, Honey</i>	<i>Philadelphus grandiflora</i>
<i>Magnolia</i>	<i>Philadelphus Virginal</i>
<i>Maple, Crimson King</i>	<i>Privet, Golden</i>
<i>Maple, Norway</i>	<i>Privet, Regel's</i>
<i>Maple, Columnar</i>	<i>Privet, Amur North, heavy</i>
<i>Maple, rubrum</i>	<i>Spiraea vanhouttei</i>
<i>Maple, schwedleri</i>	<i>Viburnum dentatum</i>

All kinds of fruit trees, 1 and 2-yr.

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(3-0), 9 to 12 ins.

\$30.00 per 1000

Write for  
Quantity Discounts

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West Olive, Mich.



# POT-GROW

## Ready for



### ILEX AQUIPERNYI BRILLIANT

Truly a superb holly—Its captivating dark green foliage having a reddish cast on its new growth, makes a delightful setting for its brilliant red "Self-Fertile" berries that are produced in profusion.

2 1/4" pot .25 3" pot .45 Zone 5

### ILEX VOMITORIA DWARF YAUPON

Shiny slightly spined leaves and remarkable low habit of growth make this variety desirable in every planting. Foliage is a light green, requires very little pruning to retain its fine qualities.

2 1/4" pot .20 3" pot .35

Zone 7

ILEX VOMITORIA DWARF YAUPON  
An outstanding bright red holly  
2 1/4" pot .25

### ILEX CORNU

A specially selected strain, "Cornuta," to insure an abundance of bright red green leaves, combined with attractive growth.

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### ILEX CRENATA

Unexcelled! Very glossy, desirable low habit of color. A must for every collection.

2 1/4" pot .18

### QUANTITY DISCOUNTS

1000 plants... 10% • 500 plants...

These discounts apply if the following requirements are met.

1. All plants must be of one variety.
2. All plants must be of one container size.
3. All plants must be shipped at one time.

PLEASE SHIP IMMEDIATELY.....

OR.....

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CITY.....

STATE.....



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## Immediate delivery

### Shipping Costs

Finally—where you live we share shipping costs 10% added free! No other charges to pay shipping on one bill. At these low down—via our choice of carrier.

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2 1/4" pot—1c 3" pot—2c

### TEXAS PRIDE OF TEXAS

An outstanding evergreen tree or large shrub with bright red berries. Usually self fertile. Excellent accent shrub.

2 1/4" pot

Zone 7

### CORNELIA

strain, "to insure you bright red berries. Attractive dark habit of growth."

3" pot

Zone 6

### AKA BULLATA

leaves and very deep rich green in your sales yard.

Zone 5

.18

### COUNTY

0 plants...

following...

variety.

container size

at one time



### ILEX AQUIFOLIUM FERTILIS

Its striking dark green foliage creates a delightful setting for the abundance of bright red berries produced by this exceptional self fertile holly. Pleasing upright habit of growth.

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Zone 6

### ILEX ALTACLARENSE WILSONI

Picturesque large, thick, dark green leaves and brilliant bright red berries. Fast, attractive habit of growth. Ideal as a large shrub or small tree.

2 1/4" pot .25

Zone 6

### ILEX CRENATA ROTUNDIFOLIA

A superb compact growing holly with rich deep green foliage. Excellent dense habit of growth.

2 1/4" pot .18

Zone 5



\* Number following description refers to minimum temperature "Hardiness Guide." See Pages 40 and 41 of your MN general catalog.



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2½ to 3 ft.	\$2.75
3 to 3½ ft.	3.00
3½ to 4 ft.	3.25
4 to 5 ft.	3.60

100 rate prices listed. For 300 or more of one size, we are glad to quote 1000 rates.



3-yr. transplants with plenty of body. The right size for lining out, wrapping or potting.

100 rate 1000 rate	
18 to 24 ins., heavy..	\$0.60
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Evergreen Liners  
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Fruit Trees  
French Lilacs

Philadelphia Minnesota Snowflake  
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Send for list.

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## NEW BULLETINS

### CONTAINER RESEARCH

The research committee of the American Association of Nurserymen has performed a valuable service for the membership by making available the 32-page booklet, "A Compilation of Research Concerned with Nursery Stock Grown in Metal Containers." The contents of the booklet were prepared by K. W. Reisch, department of horticulture, Ohio agricultural experiment station, Wooster. The conclusions of the research available on the subject are presented in readable, concise form in 21 pages, and a bibliography of over four pages guides the reader to further material on the subject. It is a thoroughgoing outline of the situation of container-grown stock today. Copies of the booklet are available to members of the A. A. N. only at \$1 each.

### DUTCH ELM BULLETIN

An address delivered by Dr. J. G. Matthysse, Cornell University, Ithaca, N. Y., at the 1957 midwestern shade tree conference has been adapted and published as Cornell Miscellaneous Bulletin 30 under the title An Evaluation of Mist Blowing and Sanitation in Dutch Elm Disease Control Programs.

In the illustrated 16-page bulletin, Dr. Matthysse stresses the primary importance of sanitation in Dutch elm disease control, in which effort is concentrated on destruction of bark beetle breeding material. He emphasizes the secondary role of mist blowing in control programs and the fact that such measures are practically valueless unless formulations, timing and coverage are all correct.

The author gives a history, in text and tables, of control practices in New York state over the past 24 years and cites pertinent facts that have emerged as key factors in a successful control program. Effects of DDT on the trees themselves and on other elm pests are also discussed in the bulletin.

### GIBBERELLIN EFFECTS

Originally appearing in Economic Botany, an article entitled "Effects of Gibberellin on Economic Crops," by S. H. Wittwer and M. J. Bokovac, Michigan State University, East Lansing, has been issued as a reprint by the Michigan agricultural experi-

## LINING-OUT STOCK

### For Shipment

Spring, 1959

### POTTED and TRANSPLANTED STOCK

	Each	Per 100	Each
ARBORVITAE, Woodward Globe			
1-yr., 2½-in. pots.....	.40	.25	.17½
2-yr., 4 to 6 ins.....	.25	.22½	.15
3-yr., 4 to 6 ins.....	.27½	.25	.17½
BUXUS, KOREAN			
1-yr., pots, 4 to 6 ins...	.20	.17½	.10
2-yr., pots, 4 to 6 ins...	.22½	.20	.12
2-yr., pots, 6 to 8 ins...	.25	.22½	.15
BUXUS, SEMPERVIRENS			
1-yr., pots, 4 to 6 ins...	.20	.17½	.10
2-yr., pots, 4 to 6 ins...	.22½	.20	.12
2-yr., pots, 6 to 8 ins...	.25	.22½	.15
EUONYMUS RADICANS			
ERECTUS			
1-yr., pots, 6 to 8 ins...	.17½	.15	.08
1-yr., heavy plants...	.22½	.20	.10
JUNIPER, HETZII, blue			
2-yr., pot, 6 to 8 ins...	.22½	.20	.10
3-yr., in beds, heavy...	.37½	.35	.17½
JUNIPER, PFITZERIANA			
1-yr., pots, 6 to 8 ins...	.22½	.20	.10
3-yr., pots, 8 to 10 ins...	.27½	.25	.12
3-yr., T., in beds.....	.37½	.35	.17½
MAHONIA AQUIFOLIUM			
(Holy Grape)			
2-yr., pots, 6 to 8 ins...	.22½	.20	.10
TAXUS CUSPIDATA			
1-yr., pots, 6 to 8 ins...	.20	.17½	.08
4-yr., T., light.....	.37½	.35	.17½
4-yr., T., heavy.....	.45	..	..
TAXUS HICKSI			
1-yr., pots, 6 to 9 ins...	.20	.17½	.08
3-yr., T., under lath...	.45	..	..
VIBURNUM TOMENTOSUM			
PPLICATUM			
2½-in. pots, 6 to 8 ins...	.25	.22½	.10
2½-in. pots, 9 to 12 ins...	.35	.30	.12
WEIGELA VANICKEI			
1-yr., pots, 6 to 10 ins...	.20	.17½	.08
2-yr., 3-in. pots.....	.27½	.25	.12

Write for complete list. Landscape stock in February 1 issue.

## FLORAL GARDENS NURSERY

25 miles west of Dayton, O. Rt. No. 35

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### "BLUE FOUNTAIN WILLOW"

(*Salix purpurea pendula*)

Weeping form of the beautiful Blue-Leaved Arctic Willow. Interesting ground cover for moist banks. Grows with a graceful downward sweep. Branches root where they touch ground. Maximum height, 10 to 12 inches.

Pot plant liners only, late spring. \$7.50 per 10; \$50.00 per 100.

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### DUGAN'S CHOICE NURSERY-GROWN PLANTS!

See page 37, September 1 issue of American Nurseryman, for complete list or write:

**DUGAN NURSERIES, INC.**  
Center St. Perry, Ohio

ment station, East Lansing. The 43-page booklet reviews the results of American and foreign gibberellin research in recent years and appraises the agricultural utility of the substance. Promising responses produced in woody and herbaceous ornamentals are discussed along with beneficial effects obtained in such crops as beans, corn, cotton, grapes and tree fruits. Many illustrations and tables accompany the text, as well as an extensive bibliography of literature cited.

The authors conclude that gibberellin offers a means of controlling such important plant responses as elimination of dwarfism; reversal of virus stunting; elongation of stems; expansion of leaves; acceleration of flowering in biennials and long-day annuals; promotion of uniformity in growth, flowering and fruiting; increased flower size; reduction or replacement of cold and daylength requirements for growth and flowering, and promotion of normal growth rates at suboptimal temperatures.

#### TIMBER TREES

Completing the 15 silvical reports on major timber trees, the lake states forest experiment station, maintained by the forest service of the United States Department of Agriculture at St. Paul, Minn., in cooperation with the University of Minnesota, has issued station papers 65, 66 and 67. They cover, respectively, *Populus balsamifera*, balsam poplar; *Acer nigrum*, black maple, and *Thuja occidentalis*, northern white cedar. The reports cover the distribution of the species, habitat conditions, life history from seeding habits to maturity, special features, and races, hybrids and other genetic features.

#### CONNECTICUT PLANT LIST

"Trees, Shrubs and Vines for Connecticut," bulletin No. 57-9 of the agricultural extension service of the college of agriculture, University of Connecticut, Storrs, prepared by H. O. Perkins, associate professor of landscape architecture at the university, has been reissued. Of about 250 plants described for home landscaping in the 24-page publication, 150, specially identified, are declared of primary importance in the state. Although the bulletin consists chiefly of an alphabetical listing of plants and their features, including mature size, supplementary information is given on culture, landscape uses, plant identification and the common names of plants.

## TREE LIST FOR SPRING, 1959

	Per 100	Per 1000 in 1000	Per 10,000 lots
<b>Upright Yew, from seed, several times sheared</b>			
6 to 10 ins., XX	\$65.00		
<b>Scotch Pine</b>			
(2-1), 8 to 12 ins.	12.00	\$60.00	\$56.00
(2-1), 4 to 8 ins.	10.00	45.00	42.50
(2-0), 6 to 10 ins.	8.00	34.00	32.50
• (2-0), 4 to 8 ins.	7.50	24.00	22.00
• (2-0), 3 to 6 ins.	6.00	22.00	20.00
(2-0), 2 to 4 ins.	5.00	16.00	14.50
<b>Scotch Pine, Auvergne, race Noble</b>			
(2-1), 6 to 12 ins.	12.00	60.00	56.00
(2-0), 3 to 6 ins.	8.00	26.00	24.00
<b>Austrian Pine</b>			
(2-1), 4 to 8 ins.	10.00	45.00	42.50
• (2-0), 3 to 6 ins.	8.00	22.00	20.00
<b>Colorado Blue Spruce</b>			
• (3-1), 6 to 12 ins.	14.00	75.00	72.50
• (3-0), 5 to 10 ins.	9.00	45.00	42.50
(3-0), 3 to 5 ins.	6.00	26.00	24.00
<b>Norway Spruce</b>			
• (3-0), 6 to 12 ins.	8.00	40.00	37.50
• (3-0), 3 to 6 ins.	6.00	25.00	23.00
<b>White Spruce</b>			
(3-1), 6 to 12 ins.	12.00	70.00	67.50
(3-0), 5 to 10 ins.	8.00	45.00	42.50
<b>Black Hills Spruce</b>			
(3-0), 4 to 8 ins.	8.00	40.00	37.50
(3-0), 2 to 4 ins.	6.00	25.00	23.00
<b>Douglas Fir</b>			
(2-0), 3 to 8 ins.	6.00	28.00	26.00
<b>Ponderosa Pine</b>			
(2-1), 3 to 6 ins.	8.00	40.00	...
<b>Norway Pine</b>			
(2-1), 3 to 6 ins.	8.00	40.00	...
<b>Mugo Pine</b>			
4 to 8 ins., XX	35.00	...	...

\*Write for price on 50,000 or more of one grade.

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**PLANTS** Over 500,000,  
475 items  
strong, field **GROWN**

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## EVERBEARING STRAWBERRIES

A reliable source of popular everbearing varieties. Nice plants. Immediate or future delivery. Can make prompt shipment of large quantities.

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- Broad-Leaved Evergreens
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### 438 FULL-COLOR REPRODUCTIONS

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Please send \_\_\_\_\_ copies of GARDEN PLANTS IN COLOR at \$42.50 each.  
My remittance is enclosed.

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# Set Attendance Record at Des Moines Flower Show

An attendance record of 88,700 was set at the Des Moines home and flower show held February 21 to March 1 in the Veterans Auditorium, Des Moines, Ia. Sponsored by the Home Builders' Association of Des Moines, the show featured a model home in a completely landscaped setting of approximately 1,500 square feet.

Eight other garden exhibits, including a spring and fall garden, a rose garden, a model interstate highway rest area and a reproduction of part of the ballroom garden at the Williamsburg governor's palace, completed the major display area. Yale Moeller, landscape architect, Des Moines, was designer of the gardens, plans of which were made available to those attending the event.

A quantity of 14-foot Douglas fir trees, cut last August for the holiday season and preserved for the show in outdoor temperatures, were used in many of the display gardens to give height to the plantings. The auditorium temperature was controlled to 65 degrees Fahrenheit during show hours and 50 degrees during the night. Hundreds of flowering shrubs and trees and 12,000 flowers were used to reproduce a springlike atmosphere.

Spreading cotoneaster, Pfitzer juniper and English ivy were used in the foundation planting along the front of the model home, with pink hyacinths, cyclamens and geraniums providing color. A Sunburst locust was placed to the left of the entrance, and clump birch underplanted with dwarf marigolds formed a corner planting.

Focal point of the outdoor living area at the rear of the home was a pear-shaped, 22x42-foot pool. In the border curving around one end of the pool and in the terrace plantings beside it, azaleas, geraniums, chrysanthemums, hyacinths and tulips were featured, along with a pyramidal linden, Hopa and Bechtel crab apples, a Norway maple, a Moraine locust and a Niobe weeping willow.

Arranged in an unusual circular design in the spring and fall garden

## RED and GOLD

### "JAVA RED" WEIGELA

(Weigela florida atropurpurea)

An easily grown RED-LEAVED WEIGELA with clear pink flower clusters.

Heavy outdoor rooted cuttings, \$30.00 per 100, \$250.00 per 1000.

These two items are unusual, attractive and completely hardy in our locality. Order your stock early.

### BEARDSLEE NURSERY

### "GOLD-LEAF" FORSYTHIA

(Forsythia intermedia aurea)

Golden-leaved Forsythia with pale yellow flowers. Found by us in a flowering shrub border.

Heavy outdoor rooted cuttings, \$30.00 per 100, \$250.00 per 1000.

### Perry, Ohio

### PIN OAKS

(Quercus palustris)

	Per 10	Per 100
4 to 5 ft. ....	\$19.00	\$175.00
5 to 6 ft. ....	25.00	225.00
6 to 8 ft. ....	37.50	350.00
1 1/2 to 2-in. cal. ....	65.00	600.00

See our seedling list in this issue. Also B&B material of excellent quality.

L. C. Gatewood

### LEAVENWORTH NURSERIES

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Leavenworth, Kan.

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NURSERYMEN'S ASSN.  
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were pink geraniums; red, white and pink tulips; cinerarias; primroses, and white, yellow and bronze chrysanthemums. These were set against a background of Andorra, Pfitzer and green Colorado junipers; Dolgo crab apples, lilacs and deutzias.

A curved white gravel path, edged with sod, led to a brick-paved patio in the rose garden, which utilized a basket-weave redwood fence as background. Eastern red cedar and tall foliage plants against the fence gave height and contrast to the 73 rosebushes in planter boxes. Cyclamens, cinerarias and white geraniums were used for variety of bloom, and Dolgo crab apples and Froebel spiraea completed the picture.

The model roadside rest area displayed by the Iowa state highway commission was typical of the 40 such areas planned along the interstate highway system in the state. Picnic tables and charcoal grills were featured in a pleasant, landscaped setting.

#### NEW HAMPSHIRE MEETING

[Continued from page 10]

pre-emergence herbicide, but it should not be used where zinnias are planted.

#### Late Application Effective

Application of weed killers late in fall when plants are dormant has proved effective for weeds such as chickweed, which makes rank growth in cold weather, Dr. Bing said, and granular materials are good where sprays might injure foliage of crop plants, if they are applied in the growing period.

Pre-emergence sprays have been successful for gladioli, especially in cormel beds, where hand weeding costs would be high, Dr. Bing reported. He further said that peonies present a special weeding problem, as they are difficult to cultivate. Plots treated in December with diuron kept plants clean through the growing season.

It was found that granular forms of these chemicals are safer to use than sprays in the growing period and are especially suitable when applications of sprays might injure leaves of the crop plants.

Diuron worked well on some types of nursery stock when two applications of the crystals were made in June and August, said Dr. Bing, and results showed Simazine had worked well on roses. High rates of application did not seem to endanger the plants.

Dr. Bing also gave an illustrated talk after the banquet in the evening, discussing European horticul-

## CUSHION MUMS

Cushion Mums are the top-volume sellers—the best known of the garden types and most readily purchased at the nursery or garden center—spring and fall. Be prepared! Growers and suppliers who are not particular as to variety but want good quality-grown cushion varieties as to color only can purchase at a real saving by ordering at "Collection Prices," all correctly labeled as to variety; shipped when needed. Send for our color-illustrated brochure—it helps you sell.

White Cushion  
Pink Cushion  
Purple Cushion

Yellow Cushion  
Bronze Cushion  
Red Cushion

#### PRICES: Rooted Cuttings—COLLECTION RATES

500 R.C.	\$ 27.50
1000 R.C.	52.50
2000 R.C.	100.00

(Minimum order, 500 rooted cuttings.)

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Waldron, Ind.

## TEUCRIUM CHAMAEDRYS

Attractive evergreen hardy border plant for edging walks and gardens. Foliage resembles English boxwood.

#### TOP-SIZE FIELD PLANTS

**\$20.00 per 100      \$180.00 per 1000**

Immediate delivery or at outside planting time.

**BEARDSLEE NURSERY**  
Perry, Ohio.

**SHRUBS AND TREES FOR THE SMALL PLACE**, by P. J. Van Melle.      Hardy deciduous materials for the home grounds.      \$3.00.      American Nurseryman, Chicago 4, Ill.

#### Seedlings and Transplants

**NEWPORT NURSERY CO.**  
Newport, Mich.

#### CHIPMAN'S CANADA RED

#### R H U B A R B

The quality will please you.  
The price will satisfy.

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For the finest in  
**NURSERY-GROWN SEEDLINGS**

Write—  
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**HARDY PLANTS**

QUALITY—SERVICE  
Perennials a Specialty.  
2559 Mentor Ave.      MENTOR, O.

## NORTHERN-GROWN STOCK TRANSPLANTS

Not Machine Planted

3-yr. 2 Stock

	Per 100	Per 1000
<b>Black Hills Spruce</b>		
10 to 12 ins.....	\$25.00	\$200.00
8 to 10 ins.....	18.00	150.00
6 to 8 ins.....	15.00	120.00

<b>Colorado Blue Spruce</b>		
8 to 10 ins.....	18.00	150.00
6 to 8 ins.....	15.00	120.00

<b>Norway Spruce</b>		
8 to 10 ins.....	12.00	100.00

<b>American Arborvitae</b>		
12 to 15 ins.....	18.00	150.00
10 to 12 ins.....	12.00	100.00
8 to 10 ins.....	10.00	80.00

### 3-YR. SEEDLINGS

<b>Colorado Blue Spruce</b>		
4 to 6 ins.....	4.50	40.00

<b>Norway Spruce</b>		
4 to 6 ins.....	3.50	30.00
6 to 10 ins.....	4.50	40.00

<b>Scotch Pine, Riga</b>		
8 to 12 ins.....	4.00	35.00
6 to 8 ins.....	3.50	25.00

### 2-YR. SEEDLINGS

<b>Colorado Blue Spruce</b>		
2 to 4 ins.....	3.00	25.00

<b>Norway Spruce</b>		
2 to 4 ins.....	3.00	25.00

### HARDY FERNS

<b>Ostrich Plume</b>		
Large clumps .....	8.00	75.00

Strict grading. Well packed.  
Satisfaction guaranteed.  
There may be as good—  
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**L. J. RAMBO'S WHOLESALE NURSERIES**  
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ture, principally in Holland and Germany, but including a few nurseries and florists in Belgium, France and Italy.

### Separate Meetings

Separate group meetings were held in the afternoon for florists, boxwood growers and nurserymen. Some of the nursery discussion centered around propagation and concerned varieties of boxwood, pyracanthas, holly and other borderline items for New Hampshire.

Some discussion was also heard on roses that might be suitable for hedges. Hardier items are needed for this area than some that are being widely advertised. Rosa roxburghii (chestnut rose) and some of the rugosa species were mentioned as possibilities. Several of these are being tested for hedge purposes at the university horticultural farm.

Issuance of the "Plantsman" from 10 to 12 times a year was regarded as important by the group, and continuance of the publication is considered desirable.

### NURSERY STOCK PROMOTION

[Continued from page 18]

wrong tree or shrub or the wrong size. Pruning knowledge is practically nonexistent.

Prof. A. M. S. Pridham and Dr. Arthur Bing, Cornell University, Ithaca, discussed weed killers. A promising new material is Simazine, to be used at the rate of six to eight pounds (actual) per acre. The effect lasts three to four months if the surface crust is not disturbed. This material looks even better than the stand-by recommendation to use eight pounds (actual) of Chlоро-IPC granular per acre.

### Bedding Plant Varieties

Dan Dowd, of the Long Island Agricultural and Technical Institute, suggested that Long Island bedding stock operators visit some of the 26 seed trials held throughout the year, to keep abreast of the best varieties for customers. He suggested the seed trials of the W. Atlee Burpee Co., at Philadelphia; Harris Seed Co., at Rochester, N. Y.; George J. Ball, Inc., West Chicago, Ill., and Vaughan's Seed Co., Wheaton, Ill. In addition, Vaughan's Seed Co. will also have a test plot at Farmingdale this summer, and Salisbury park, Nassau county, Long Island, will also compare varieties. The best time to see these selections will be in July and August.

Dr. John Cornman, Cornell University, Ithaca, spoke on "Lawn

## LANDSCAPE MATERIAL

**White Pine**, 2 to 3 ft., 3 to 4 ft., 4 to 5 ft., 5 to 6 ft., 6 to 8 ft.

**Austrian Pine**, 3 to 4 ft., 4 to 5 ft., 5 to 6 ft., 6 to 8 ft.

**Red Pine**, 2 to 3 ft., 3 to 4 ft., 6 to 8 ft.

**Norway Spruce**, 2 to 3 ft., 3 to 4 ft., 4 to 5 ft.

**Hemlock**, 4 to 5 ft., 5 to 6 ft., 6 to 7 ft.

**Dogwood, White-Flowering**, 5 to 6 ft., 6 to 8 ft., 8 to 10 ft.

**Euonymus alatus**, 3 to 4 ft., 4 to 5 ft., 5 to 6 ft.

**Bayberry, pensylvanica**, 2 to 3 ft., 3 to 4 ft., 4 to 5 ft.

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## PIN OAK SEEDLINGS

(*Quercus palustris*)

	Per 100	Per 1000
6 to 12 ins.....	\$ 6.00	\$ 55.00
12 to 18 ins.....	8.00	75.00
18 to 24 ins.....	12.00	100.00
2 to 3 ft.....	17.00	140.00
3 to 4 ft.....	22.00	190.00

## BUR OAK

(*Quercus macrocarpa*)

2 to 3 ft.....	17.00	140.00
3 to 4 ft.....	22.00	190.00
4 to 5 ft.....	30.00	250.00

Finished material quoted on request.

L. C. Gatewood

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A deep red hybrid tea with grandiflora tendencies. A. R. S. rating 7.9. Suggested retail, \$2.50.

Each	Each	Each	Each
1 to 9	10 to 19	20 to 99	100 to 249
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Each 250 and up			

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**Peterson & Dering**

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**Shenandoah Nursery**

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**Elmer Roses**

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San Gabriel, Calif.

## BEGINNING IN THE NURSERY BUSINESS

By John J. Pinney. 64 p. (1958). \$1.00.

American Nurseryman Chicago 4, Ill.





## Hardy Northern-Grown Stock at WHOLESALE

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Write for Price List.

Box 457, LAKE CITY, MINN.

servations of the growing sales of nursery stock in containers. He reported that the development of this type of merchandising is going at a rapid rate on Long Island. Container-grown stock may be better, because it receives more attention than field-grown nursery stock. He suggested a mixture of soil and peat or peat and perlite, plus fertilizers, for growing annuals, herbaceous materials and nursery stock. Growers should experiment until they get good plant response.

Mr. Grey recommended square metal containers. Spacing is important, and it is necessary to minimize the wide fluctuations in temperature of the soil or media. He also recommended winter protection with a mulch of litter or salt marsh hay, but not sawdust, to prevent these fluctuations. A wind barrier and some type of shade are other important considerations.

### LANDSCAPE CONTEST

The landscape planting plan for the new Holiday Inn motel, now under construction at Tyler, Tex., will be used as a student design contest problem by 17 advanced students in landscape design at Kansas State College, Manhattan, according to an announcement made recently by John R. Manser, Tex Mex Corp., Dallas, Tex.

Directing the design problem for the students will be Prof. L. R. Quinlan, head of the landscape design department at Kansas State College, and George Fisher, landscape architect, Tyler. The student submitting the best presentation will receive a \$50 award from the Tex Mex Corp., and the winning plan will be used to landscape the motel's grounds. The entries will be judged by a panel selected by the landscape design department of Kansas State College.

G. F.

GOING into the nursery and garden center business is James McCauley, Sharon, Pa. The firm will be known as J. McCauley & Son.

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<i>Picea pungens</i> , Moerheim						
400 Pot grafts	1.25	1.20				
<i>Taxus cuspidata</i>						
1650 3-yr., T.	.50	.48	.45			
<i>Viburnum carlesii</i>						
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- Thais, red, kaempferi
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- 9 to 12 ins., B&B, \$1.15 each
- 12 to 15 ins., B&B, 1.25 each

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## PLANT PATENTS

The following plant patents were issued recently, according to Rummel & Snow, Chicago patent attorneys:

No. 1790. Rose plant. To Herbert Robinson, Bury, England, assignor to Jackson & Perkins Co., Newark, N. J. A new and distinct variety of rose plant of the large-flowered hybrid floribunda class, characterized particularly as to novelty by the unique combination of vigorous, tall and bushy plant growth; a floriferousness greater than that of the parent variety Pinocchio (plant patent No. 484) and the continuation thereof throughout the entire growing season; unusually long shoots; long-lasting petal quality similar to that of the parent variety Peace (plant patent No. 591), and the distinctive mottled-yellow, lightly overcast with buff yellow, general color tonality of the flowers.

No. 1791. Chrysanthemum plant. To Roderick W. Cumming, Bristol, Conn., assignor to Bristol Nurseries, Inc., Bristol. A new and distinct variety of chrysanthemum plant of the hardy decorative type, characterized particularly as to novelty by its airy grace of plant growth; its healthy, glossy, dark green foliage, which remains on the plant all the way to the ground; its erect, strong and wiry stems; its extremely early period of flower display, and its excellent productivity of large, long-lasting, decorative flowers with the general color tonality of dawn pink occasionally flushed with tangerine orange.

No. 1792. Rosa floribunda plant. To Edward Burton Le Grice, North Walsham, Norfolk, England. A new and distinct variety of Rosa floribunda plant. Special characteristics of the new hybrid rose plant are the perfection of the separate flowers, the abundance of its growth and the large flower heads. The main distinguishing characteristics are that the blooms are unique in color, shape and freedom and that the blooms can open from a tight bud when cut, develop in water and last for a considerable time. The abundant foliage and the strong but bushy growth make it suitable for bedding.

No. 1793. Iris plant. To Robert V. Schreiner, Salem, Ore. A new and distinct variety of iris plant, characterized particularly by the distinctly glistening sheen of the amethyst coloring of the flowers, which are exceptionally large in size and nearly spherical in form; the heavy texture of the blooms, which resists the elements; the large, firm, gracefully cupped standards and semiflaring falls; its height and well-spaced stem branching; its broad foliage, and its ease of propagation.

No. 1794. Rose plant. To Albert J. Restani, San Francisco, Calif. A new and distinct variety of rose plant of the polyantha class, retaining the free habit of bloom that enables its parent variety to supply blooms continuously during all seasons under greenhouse conditions and characterized particularly as to novelty by its true red color that is held without fading until the petals fall; the large number of petals, totaling about twice as many as those of its parent; the better form of the rose as a bud and open flower, and the longer-lasting nature of cut flowers obtained from the plant.

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Bare-Root — Lots of 10 or More

	Each
2 to 3 ft.	\$1.00
3 to 4 ft.	1.25
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7 to 8 ft.	5.50
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10 to 49	
11½-in. cal.	\$13.50
13/4-in. cal.	16.50
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## PLANT NOTES HERE AND THERE

By C. W. Wood

### Nolinas

For some time I have wanted to write about the lily cousins, nolinas, but I know so little about them that I have hesitated until I recently received an interesting letter from a New Mexico correspondent, telling of their economic uses at the hands of southwestern natives. The treatment will be somewhat incomplete, and I hope that it will prompt some of my southwestern friends to give me more information about these interesting plants. It may be added that one reason I know so little about the plants is that those I tried in my experiments were too tender for this severe climate.

The genus, as usually accepted by botanists, is composed of some 20 species, extending from Texas, New Mexico, Arizona and southern California southward. The plants vary in form from low, grassy growths of the Texas and New Mexico forms to trees of 20-foot stature in southern Mexico and Central America. The ones that will be considered here, natives of the southwest, form tufts of narrow, grasslike leaves (hence the common name of bear grass for some kinds) that furnish browse for wild and domesticated animals during long dry periods, because they flourish in sections where precipitation does not exceed 10 to 15 inches annually.

The species of greatest potential importance as an ornamental outside its native range (central Texas), it seems to me, is *Nolina* (not to be confused with *nolana*) *texana*. It makes a tuft of long (to three feet in length, it is said, in fertile, heavy soil), grasslike leaves, from which rises an 18-inch scape in early spring, bearing white, lilylike flowers. Parks records that it "was well known to the early settlers, who used the leaves for thatch material, to make baskets, to tie corn tops and to hang bacon. On the Edwards plateau, where it is most common, it furnishes large amounts of browse during the parts of the year when grass is out of the question."

Another Texan, *N. lindheimeriana*, is spoken of as possessing not a little ornamental value, especially where a small, yuccalike plant is desired. Its long, narrow leaves, to a length of 20 inches, have given it the local name of ribbon grass, and its

18-inch stem of small, yuccalike flowers, followed by black seed vessels, gives it the appeal of a miniature yucca. Coming from eastern Texas, it should be hardy as far north as St. Louis, Mo., at least.

Then, there should be mentioned the so-called bear grass, *N. microcarpa*, which grows naturally on dry plains and slopes from New Mexico and Arizona southward. There it grows to three feet in height, with narrow, grasslike leaves to five feet or more in length and long (to three feet) panicles of small, pale yellow to whitish flowers in spring. I have not seen the plant, but I have corresponded with three or four friends in the southwest who have used it in the home landscape; they tell me it is one of the better plants for foundation planting in the warm lands of little moisture, a fact that is borne out in a picture I have in my files.

The plant has been used to some extent in the domestic economy of

the southwestern natives. For instance, some of the Pueblo Indians use the leaves in basket weaving, and it is recorded that several of the tribes have employed the fiber in making cordage. The Indian name for the plant, *sacahuista*, meaning grass and thorn, describes it better than many of my words could do.

### Some Small Columbines

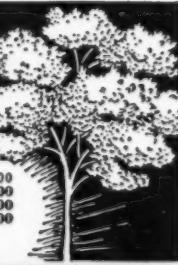
I received a letter inquiring about several small columbines, which I shall try to answer by giving some extracts from a letter I received some time ago from a correspondent who has made a study of the small plants during recent years. I have been somewhat out of touch with these plants of late years; so I am glad that I am able to pass the following information along:

"The plant known in gardens as *Aquilegia reuteri*, which is the same as *A. bertolini*, so far as I can see, is a good plant for the beginner in columbine culture. The color is

**PINK FLOWERING DOGWOOD**  
AMERICA'S FAVORITE FLOWERING TREE

	Per 10	Per 100	Per 10	Per 100	
12 to 18 ins. ..	\$ 7.00	\$ 60.00	3 to 4 ft. ....	\$17.50	\$150.00
18 to 24 ins. ..	9.00	75.00	4 to 5 ft. ....	30.00	250.00
2 to 3 ft. ....	12.50	115.00	5 to 6 ft. ....	45.00	400.00

(B&B, add 50¢ extra per plant)—Write for our new, descriptive wholesale catalog.



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<i>Magnolia grandiflora</i> (Southern Magnolia), 1-yr., 2 to 4 ins.	\$ 5.00	\$ 40.00	9 to 12 ins.	\$ 250.00
2-yr., 6 to 12 ins.	8.00	60.00	<i>Ilex rotundifolia</i> , 6 to 9 ins.	120.00
<i>Magnolia Glauca</i> , 2-yr., 4 to 6 ins.	15.00	120.00	field-grown, T., 6 to 9-in. spread	230.00
<i>Mahonia bealei</i> (japonica), 2 to 4 ins.	10.00	80.00	field-grown, T., 9 to 12-in. spread	400.00
<i>Berberis thunbergi atropurpurea</i> , 1-yr., 6 to 9 ins.	10.00	80.00	<i>Ilex microphylla</i> , 6 to 9 ins.	120.00
<i>Chinese Chestnuts</i> , 1-yr., 6 to 9 ins.	12.00	100.00	<i>Juniperus hetzii</i> , field-grown, T., 6 to 9-in. spread	250.00
Cutting-Grown:			<i>Juniperus depressa plumosa</i> , field-grown, T., 6 to 9-in. spread	250.00
<i>Forsythia Spring Glory</i> , 6 to 9 ins.	40.00		<i>Euonymus coloratus</i> , 2 1/4-in. pots	150.00
<i>Spiraea froebeli</i> , layers, 6 to 9 ins.	40.00		<i>Vinca minor</i> , 2 1/4-in. pots	150.00
<i>Spiraea vanhouttei</i> , layers, 6 to 9 ins.	40.00		<i>Vinca minor</i> , 1 to 3 leads, suitable for potting	20.00
<i>Spiraea thunbergi</i> , layers, 6 to 9 ins.	40.00			
<i>Weigela vaniceki</i> , 6 to 9 ins.	80.00			
<i>Viburnum opulus sterile</i> , 4 to 6 ins.	100.00			
<i>Viburnum tomentosum plicatum</i> , 4 to 6.	120.00			
<i>Viburnum burkwoodi</i> , 4 to 6 ins.	150.00			
<i>Viburnum rhytidophyllum</i> , 4 to 6 ins.	100.00			

Per 100	Per 1000
<i>Viburnum carlesi</i> (Fragrant Snowball), 9 to 12 ins.	\$ 250.00
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field-grown, T., 6 to 9-in. spread	230.00
field-grown, T., 9 to 12-in. spread	400.00
<i>Ilex microphylla</i> , 6 to 9 ins.	120.00
<i>Juniperus hetzii</i> , field-grown, T., 6 to 9-in. spread	250.00
<i>Juniperus depressa plumosa</i> , field-grown, T., 6 to 9-in. spread	250.00
<i>Euonymus coloratus</i> , 2 1/4-in. pots	150.00
<i>Vinca minor</i> , 2 1/4-in. pots	150.00
<i>Vinca minor</i> , 1 to 3 leads, suitable for potting	20.00

Calleryana Pear Seeds (These seeds produce virus-free seedlings on which to propagate pear varieties), \$50.00 per lb.

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pleasing, and the short-spurred flowers look like a small blue-violet *A. vulgaris*. This is one of the small columbines that have to have lean living if they are to remain small. The plant should be given a lean, sandy, gravelly soil if one wants to keep the plant under a foot. The ethereally lovely *A. scopulorum* needs the same treatment if one expects to keep it at six or eight inches. In fact, it has to be starved in gravel to keep it at all. There seems to be something peculiar about all the really small kinds, including *A. jonesii*, *A. saximontana*, *A. flabellata nana* and *A. glandulosa jucunda*, in that they may grow satisfactorily in one garden, but not so well in another. But one can usually depend upon *A. bertoloni*, *A. pyrenaica*, *A. akitensis* and usually the small, pink-flowered *A. rubicunda* to give satisfactory results if they are given a lean, well-drained soil. I think I remember you writing once that the little green and chocolate Siberian, *A. viridiflora*, had little appeal to you. If it is given lean treatment to keep it below a foot, it is one of the most fascinating of the lot to me."

I think a word of caution should be added to my friend's helpful remarks. As nearly all columbines tend to be short lived, provision for their

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	Each
<i>Buxus bakeri</i> (Arborvitae), 5 to 5 1/2 ft.	\$2.00
<i>Juniperus</i> , Pittieri, 20 to 40-in. spread	2.00
<i>Juniperus virginiana keteleeri</i> , 48 to 56 ins.	1.50
<i>Juniperus excelsa stricta</i> , 36 to 40 ins.	2.00
<i>Abelia grandiflora</i> , 22 to 28 ins.	1.00
<i>Chamaecyparis</i> Laurel, 3 to 4 ft.	1.50
Cherry Laurel, 5 ft.	1.75
5 to 6 ft.	2.00
<i>Ilex opaca</i> Hume, 4 to 5 ft.	2.00
<i>Ligustrum lucidum compactum</i> , 4 1/2 to 5 1/2 ft.	1.35
<i>Mahonia bealei</i> , 18 to 20 ins., gal. cans	1.00

F.O.B. Dundee

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Dundee, Miss.



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Tyler, Texas

frequent renewal should be made; and as renewal is best made by seedage, a new lot should be started yearly. When I was growing dwarf columbines commercially, I kept the different kinds as far apart in the nursery as I could to insure true-to-name seedlings.

### Tahoka Daisy

After an absence of many years from my garden, a few plants of the Tahoka daisy (*Machaeranthera tanacetifolia*) were grown last year to renew an old friendship and to enjoy again their splendid cut flowers. The experience of growing them reminded me that neighborhood growers are surely missing a good sales item if they do not stock the plant. When it first became popular a quarter of a century or so ago, I sold it from pots in June when my own stock was in bloom in the garden and found it to be one of the best sellers among the annuals.

It is a plains plant of the composite family, growing naturally from the Dakotas and Montana into Mexico. It is quite at home in the east when given a sunny spot and is able to take a lot of dry weather, making it a natural for the busy gardener. The plants grow to two feet in height, are clothed in divided leaves (if one knows tansy, its specific name, *tanacetifolia*, will tell what it is like), and bear showy daisies to two inches across, with violet-blue rays and yellow centers.

I found that a good way to handle plants for the show garden was to plant fresh seeds in autumn where the plants are wanted; then, I thinned out the plants the following spring to stand about a foot apart. Plants intended for sale were seeded in flats in winter and stacked outdoors to freeze until about April 1, when they were brought inside for germination. When the seedlings were large enough to handle, they were transplanted singly into small pots, transferred later into larger

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12 to 14 ins., gal. cans .....	.60c
16 to 20 ins., gal. cans .....	.65c
24 to 28 ins., gal. cans .....	.75c
Liners, 2½-in. pots .....	.14c
Liners, qt. cans .....	.18c
Field plants, B&B, 2 to 5 ft., 70c per ft.	

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## PIN OAKS

1-yr., S., \$8.00 per 100

### SINGER GARDENS

Stamping Ground, Ky.

### NATIVE EVERGREENS

*Rhododendron maximum*,  
*Kalmia latifolia*, *Ilex opaca*,  
*Tsuga canadensis*

	Per 100	Per 1000
3 to 6 ins., S. ....	\$3.00	\$20.00
6 to 9 ins., S. ....	4.00	30.00
9 to 12 ins., S. ....	6.00	50.00
12 to 18 ins., S. ....	8.00	70.00

CUMBERLAND PLATEAU NURSERY  
Rt. 1, Crossville, Tenn.

### FLORIDA - GROWN CITRUS

4-in. and 6-in. plastic pots.

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### AMERICAN HOLLY

(*Ilex opaca*)  
The most wanted plants in America. We offer these only in named varieties, of tried and proved worth.

### ORIENTAL HOLLIES

Popular varieties, such as *Ilex burfordii*, *I. cornuta*, *I. crenata*, *I. hetzii* and *I. rotundifolia*. Write for descriptive wholesale price list.

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ROSES



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130 other popular  
varieties. In attractive,  
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Beautiful shade, productive too! Prolific varieties. Sizes 1½ to 12 feet. In attractive packages or bare roots. Get stock list and prices.

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### CRAPE MYRTLE WILLIAM TOOHEY

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18 to 24 ins. ....	Each
2 to 3 ft. ....	\$.45

CHASE NURSERY CO., INC.

Chase, Ala.

pots if growth demanded and sold from the pots when the outdoor stock commenced to bloom in June.

### Clematis Tangutica

The New Jersey reader who asked about the golden clematis, *C. tangutica*, and most other neighborhood growers as well will, I think, find the plant good property. In fact I should not expect any good clematis (and, certainly, this one is entitled to be put in that class) to remain long in one's possession after the customers see it.

The subject of the present note is a plant of many uses, not the least of them being its value in a cut state for room decoration when it is in the fruiting stage. If one remembers that plants, foliage, flowers or fruits for room decoration and arrangements are the most popular phases of the garden arts at present, the plant's sales potential can be better appreciated. Its yellow lanterns during June are decorative, as are most clematis flowers, and the plants make a pleasing addition to the early summer garden. And then later the gracefully slender branches, carrying tufts of whitish silk, are the crowning glory of the golden clematis. It is easily grown from seeds planted in the fall.

### Crambe

I have an inquiry on crambe that I find rather difficult to answer, if for no other reason than that the names in gardens, including the botanic gardens from whence most of my seeds have come, are in a hopeless state of confusion. So I shall restrict the remarks to a few general statements.

The genus belongs to the crucifers, being composed of about two dozen species, I believe, though there are many more names, many of them synonyms. They are almost exclusively Old World plants, only one being accredited to this hemisphere (the southern tip of South America), so far as the records indicate. They are for the most part monocarps, as they behaved in my trials, not necessarily biennials, for some of the plants wait three or four years for their first and only flowering; however, their prodigious flower production seems to weaken them so they cannot come back for another effort. For maximum growth, which is when they are most effective, they need a rich soil, preferably one containing much clay, but they give a satisfactory performance even in my light sand. For instance, I once had seeds of a central Asian species from a Soviet botanic garden which grew 10 feet or more (I do not find the

## APRIL SPECIALS in EVERGREENS

### Offered in Car and Truckload Lots

	Each	Each	Each	Each
	10	50	10	50
	to 50 and up		to 50 and up	
<b>CONIFEROUS:</b>				
<i>Arborvitae, Berckmans Golden</i>	\$1.50	\$1.35		
12 to 15 ins.				
12 to 15 ins.	\$1.50	\$1.35		
<i>Cedrus deodara</i>				
4 to 5 ft.	4.50	...		
5 to 6 ft.	6.00	...		
<i>Firs—Balsam and Douglas</i>				
3 to 4 ft.	4.25	...		
4 to 5 ft.	5.00	...		
<i>Hemlock, Canadian</i>				
2 to 2½ ft.	2.75	2.60		
2½ to 3 ft.	3.50	3.30		
3 to 3½ ft.	4.50	4.30		
3½ to 4 ft.	5.50	5.25		
4 to 5 ft.	6.50	...		
<i>Juniper, Irish</i>				
18 to 24 ins.	1.85	1.65		
2 to 2½ ft.	2.55	2.00		
2½ to 3 ft.	2.85	2.50		
<i>Pine, Austrian</i>				
2 to 3 ft.	3.00	2.75		
<i>Pine, Japanese Black</i>				
2 to 3 ft.	3.00	2.75		
3 to 4 ft.	4.00	3.75		
4 to 5 ft.	5.00	...		
<i>Pine, Scotch</i>				
2 to 3 ft.	2.50	2.25		
<i>Pine, White</i>				
2 to 3 ft.	3.00	2.75		
3 to 4 ft.	4.00	3.75		
4 to 5 ft.	5.00	...		
<i>Pine, Scotch</i>				
2 to 3 ft.	2.50	2.25		
<i>Pine, White</i>				
2 to 3 ft.	3.00	2.75		
3 to 4 ft.	4.00	3.75		
4 to 5 ft.	5.00	...		
<i>Spruce, Black Hills</i>				
2½ to 3 ft.	3.50	3.25		
3 to 4 ft.	4.50	4.25		
4 to 5 ft.	5.75	...		
<i>Spruce, Canadian Blue</i> (Picea canadensis). Same sizes and prices as Black Hills Spruce.				
<i>Spruce, Norway</i>				
18 to 24 ins.	2.00	1.75		
2 to 2½ ft.	2.50	2.25		
2½ to 3 ft.	3.00	2.75		
3 to 4 ft.	3.50	3.25		
<i>Taxus cuspidata</i>				
15 to 18 ins.	3.25	3.00		
18 to 24 ins.	4.00	3.75		
2 to 2½ ft.	5.00	4.75		
<i>Taxus baccata</i>				
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18 to 24 ins.	4.00	3.75		
2 to 2½ ft.	5.00	4.75		

## HOLLY—CAMELLIAS SPECIAL SALE

Exceptionally well-grown, healthy plants.

### Plants Potted (3-in. Pots), Fall and Winter, 1958-59

Per 100

9663 <i>Camellia japonica</i> (over 90 varieties)	\$30.00
8925 <i>Ilex aquifolium</i> . . . . .	30.00
13,690 <i>Ilex opaca</i> . . . . .	25.00
4752 <i>Ilex cornuta</i> . . . . .	25.00
14,412 <i>Ilex crenata</i> . . . . .	25.00

1-gal.

### Container-Grown Plants

3989 <i>Ilex aquifolium</i> , 1-yr. . . . .	60.00
136 <i>Ilex aquifolium</i> , 2-yr. . . . .	80.00
5051 <i>Ilex opaca</i> , 1-yr. . . . .	60.00
2282 <i>Ilex opaca</i> , 2-yr. . . . .	80.00
2291 <i>Ilex cornuta</i> , 1-yr. . . . .	60.00
404 <i>Ilex cornuta</i> , 2-yr. . . . .	80.00
5950 <i>Ilex crenata</i> , 1-yr. . . . .	60.00
2664 <i>Ilex crenata</i> , 2-yr. . . . .	80.00

Miscellaneous Hollies (*pernyi*, *pedunculosa*, *myrtifolia* and *angustifolia*)

3008 1-yr. . . . .	60.00
433 2-yr. . . . .	80.00

Broad-leaved Evergreens  
(*Pieris japonica*, *Aucuba*,  
*Ligustrum* and *Pyracantha*)

5198 1-yr. . . . .	60.00
466 2-yr. . . . .	75.00

Cash with order—F.O.B. Pinehurst, N.C.  
Orders over \$25.00 packing free.

## CLARENCE GARDENS NURSERY

Linden Rd.  
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## ROSE BUSHES

Patented and Standard in  
Good Assortment  
Bare-Root—Packaged  
Write for price list.

### C. E. WILSON NURSERIES

Box 400 Jacksonville, Tex.  
Phone: 4117

THE GRAFTER'S HANDBOOK, by R. J. Garner. 2nd ed. Grafting in detail 260 p. \$5.75  
American Nurseryman Chicago 4.

reference at the moment and my memory is faulty) when planted in heavy soil and was not much more than half that in the ordinary garden soil. The plants grow best in full sun and need staking when grown in a windy spot.

Except for the plant usually relegated to the vegetable garden, sea kale (*Crambe maritima*), the species most often found in gardens is *C. cordifolia*, from the Caucasus. In my trials, it could be depended upon to grow to six feet in height and almost as much across when it is displaying its immense, almost naked panicles of small, white crossflowers in June. The plant then makes a most imposing picture. It is easy to grow from seeds and quite hardy here in northern Michigan if the fleshy root is mulched over winter.

### Chrysanthemum Charm

Although I have been out of touch with Charm chrysanthemums since 1951 (when I last tried to fit the plants into a northern gardener's scheme of operation and found them lacking for outdoor culture this far north), I still have a fondness for them because of their floriferousness, bright colors and wide range of colors.

As I remember their history, they were reported to be a mutation that appeared in a batch of seedlings of cascade chrysanthemums grown in England from seeds produced in the firm's growing operations in Africa. I do remember there were speculations at the time if seeds produced in the tropics and moved to temperate climates, or vice versa, would induce mutations. Be that as it may, the Charm strain proved to be just that—charming. The plants grew to about two feet in height and close to a yard across in the trials, but I could not induce blooming outdoors in this climate, for the plants were a sodden mass of frozen foliage long before a bit of color showed. However, they were really a sight when they flowered in the cool sash house. I suspect that where they could be flowered outdoors in the far south or in sections where pot-grown chrysanthemums of their size would find a market, they would be a profitable item. It was between seven and eight months from the time of germination of the seeds to flowering in my trials; so one could figure from that when to start them into growth, though shading and lighting might be used to shorten or lengthen that period somewhat. At the time of the trials, the flowers were all single (I suspect they still are, judging from descriptions in current European

## AZALEAS CONIFERS and BROAD-LEAVED EVERGREENS

Finished Stock and  
Potted Liners

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4425 W. Lawn Dr.  
Nashville 9, Tenn.

## SPECIMEN PLANTS BROAD-LEAVED EVERGREENS

### ALSO

*Quercus phellos*  
*Quercus palustris*  
*Magnolia grandiflora*  
Up to 2 1/2 to 3-in. cal.

## WINN NURSERY, INC.

6926 Granby St.  
Norfolk, Va.  
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Established 1885

We Solicit Your  
Inquiries.

Member of A. A. N.

**BALSAM LINERS (Abies fraseri)**

100,000 Selected, collected, 6 to 15 ins., seedlings..... \$125.00 per 1000

**RHODODENDRON CATAWBIENSE**

5000 Nursery-grown, transplanted, seedling clumps, 6 to 15 ins..... \$500.00 per 1000

**LEUCOTHOE CATESBAEI**

5000 Nursery-grown, transplanted, seedlings, 4 to 8 ins..... \$150.00 per 1000

**OXYDENDRUM ARBOREUM (Sourwood)**

1000 Collected liners, B&amp;B, 4 to 6 ft..... \$1.65 each

**KALMIA LATIFOLIA**

5000 Heavy, blocky, collected clumps, B&amp;B, 12 to 18 ins..... \$1.55 each

Will accept orders for 500 or more only in each variety, and prices are delivered your nursery within 1000 miles.

**ANTHONY LAKE NURSERY, INC.,****Pineola, N. C.**

seed lists) and came in a truly remarkable range of colors, including pinks, orange, many red shades and yellows, most of them brilliant and clear cut.

**A Good Hardy Water Lily**

It is heartening for this observer of the horticultural scene to see how rapidly water gardening is spreading. It may be that the gardener has room for no more than a tub, but once he becomes interested in the water lily, he is quite sure to have a tub full (more, if possible) of water plants. And he will want a root of *Nymphaea tuberosa*, the magnolia water lily, in its double-flowered form known as *richardsoni*. This plant has a large root; large leaves (too large, perhaps, for a small tub) and large, double, fragrant flowers.

**BANK PUBLICIZES YEWS**

The value of the Japanese yew for year-round landscape beauty was pointed out in recent advertising of the La Salle National bank, Chicago, Ill., in Chicago newspapers. Featuring a drawing of a B&B specimen, the advertisement emphasized that the Japanese yew is a fine landscape investment, despite its relatively high cost, and urged homeowners to start saving for the proper landscaping of their grounds.

PURCHASED recently by Montebello, Calif., for a civic center site was a 19-acre tract of land that included the Howard & Smith Nursery, Montebello.

OPENED recently was House Without Bounds, a retail garden center at Menlo Park, Calif. Firm officers are R. Lamontagne, president; J. Harris, vice-president, and D. Lamontagne, secretary-treasurer.

**QUALITY and QUANTITY**

	Each
Pfitzer Juniper	
15 to 18 ins.	\$1.00
18 to 24 ins.	1.90
Hetz Juniper	
18 to 24 ins.	1.75
24 to 30 ins.	2.00
Greek Juniper	
15 to 18 ins.	1.30
18 to 24 ins.	1.50
Berckmans Arborvitae	
15 to 18 ins.	1.40
18 to 24 ins.	1.65
24 to 30 ins.	2.00
30 to 36 ins.	2.50
Compact Arborvitae	
18 to 24 ins.	1.50
30 to 36 ins.	2.50
Nigra Arborvitae	
24 to 30 ins.	1.75
30 to 36 ins.	2.00
Woodward Globe Arborvitae	
12 to 15 ins.	1.50
15 to 18 ins.	2.00

**FIKE NURSERIES**

Hopkinsville, Ky.

**Specimen Stock**

Chinese Holly — Japanese Holly  
Berberis julianae (B.P.I. Variety)  
Cornus florida — Magnolia grandiflora  
Juniperus chinensis Shosmith  
Juniperus sylvestris femina

Shaped Plants—Beautifully Grown

Write for prices or come and select stock. Trailer delivery arranged.

**SOUTHSIDE NURSERIES, INC.**Rt. No. 15, Box 471  
Richmond, Va.

Phone: BELmont 2-0156

(Night and weekends—  
SHadyside 8-2434)**EVERGREENS**

100 acres of choice evergreens ready for sale.

Write for price list.

GRANT'S NURSERY  
Rt. 2 Caledonia, Miss.

Quality stock plus pleasing service. Inquiries invited.

**87th Year of Growing**Box 88-A Sherman, Tex.  
**TEXAS NURSERY CO.****CUMBERLAND VALLEY NURSERIES, INC.**

Wholesale Growers of Dependable

Fruit and Flowering Trees

Write for latest price list.

313 N. Chancery St.  
McMINNVILLE, TENN.**FLOWERING CRAB APPLE LINERS**

Peach, Plum, Shrubs, Shade Trees and Fruit Trees

Write for catalog.

GLOBE NURSERIES  
Box 249 McMinnville, Tenn.**Better Liners  
of the Better Kinds**Good Roots . Good Tops  
Eastern Shore Grown**DECIDUOUS LINERS**Write for Price List  
JACQUES L. LEGENDRE, Pres.

**GULF STREAM NURSERY**  
WACHAPREAGUE, VIRGINIA


**WE SPECIALIZE IN FINE  
Azaleas and Camellias**  
Write for Catalog

**FLOWERWOOD NURSERY**  
GREGORY L. SMITH, Owner  
Rt. 1, Box 130 MOBILE, ALA.

**QUALITY STOCK GROWN BY US**  
Cherokee Chief Red-Flowering Dogwood  
(Plant Patent No. 1710)  
Shade Trees, Flowering Trees, Evergreens, Broad-Leaved Evergreens
Write for wholesale list.  
**HAWKERSHAW & SONS NURSERY**  
Tullahoma, Tenn.

## KRIEGER'S WHOLESALE NURSERY

P. O. Box 116, Bridgman, Mich.

### RED RASPBERRIES

	100	1000
Latham, Trans.	\$10.00	\$80.00
1-yr., No. 1	8.00	65.00
Durham (Fall Bearing), Trans.	10.00	80.00
1-yr., No. 1	8.00	65.00
Indian Summer (Fall Bear- ing), Trans.	10.50	85.00
1-yr., No. 1	8.50	70.00

### BLACK RASPBERRIES

	100	1000
Blackhawk (New), No. 1 tips	\$10.00	\$75.00
Cumberland, Logan, Morrison, Dundee, No. 1 tips	6.00	45.00
Concord,	10	100
2-yr., No. 1	\$2.00	\$15.00
Fredonia,	2.20	16.00
Van Buren,	2.40	18.00

### GRAPEVINES

	10	100	1000
Concord,	2.00	\$15.00	\$100.00
Fredonia,	2.20	16.00	120.00
Van Buren,	2.40	18.00	....

### BLUEBERRIES

Rancocas, Rubel, Jersey	Each	10	100	1000
2-yr., 9 to 12 ins.	\$0.40	\$3.50	\$32.50	\$300.00
3-yr., 12 to 18 ins.	.55	5.00	47.50	450.00
4-yr., 18 to 24 ins. (Fruit Buds)	.75	7.00	67.50	650.00
5-yr., 24 to 36 ins. (Fruit Buds)	1.00	9.00	87.50	....

Quantity prices upon request. All stock ready for immediate or future shipment.

Phone: HOpkins 5-5522

### GOOSEBERRIES

	10	100
Houghton,	3-yr., heavy	\$3.50
2-yr., No. 1	2.50	20.00

### RED RHUBARB

	10	100
Canada Red, No. 1 Div.	\$4.00	\$35.00
McDonald, No. 1 Div.	3.50	30.00

### VICTORIA RHUBARB

	100	1000
1 1/2 to 2 ins.	\$10.00	\$80.00
1 to 1 1/2 ins.	7.50	60.00
3/4 to 1 in.	6.00	45.00
1/2 to 3/4 in.	4.50	30.00

### ASPARAGUS

	100	1000
Washington,	3-yr., heavy	\$4.50
2-yr., No. 1	3.00	20.00
1-yr., No. 1	2.10	14.00

### HORSERADISH

	10	100
Cuttings, 4 to 6 ins.	\$1.00	\$4.50
Whole Roots	1.50	7.50

Quantity prices upon request. All stock ready for immediate or future shipment.



HOW ABOUT LETTIN'  
OZARK NURSERY  
SUPPLY THIS SEASON'S  
SHRUBS, TREES  
AND VINES.

#### HERE'S JUST A SAMPLE

- Fruit Trees — Standard and Dwarf
- Small Fruits — Grapes and Berries
- Ornamental and Shade Trees
- Flowering Shrubs
- Evergreens — Broadleaves and Conifers
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Evergreens B&B  
Write for price list.  
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Julien, N. C.

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Pure Kentucky-grown and handled with care at:

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Prices in our classified ad under  
LAWN GRASS

### SEEDS

Native and imported seeds for  
northern nurserymen.

K. J. BRADEN SEED CO., INC.  
Box 427  
Rochester, N. H.

### PEAR SEEDLINGS

(Pyrus calleryana)

WHITEROCK NURSERIES  
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Crockett, Tex.

### CANNED PLANTS

Build profits with Wight's container-grown  
evergreens. Wide assortment, including  
Ilex, Magnolia, Camellias, Pyracantha.  
Ask for wholesale list.

Wight NURSERIES CAIRO,  
GA.

## Legal Decisions

### MORTGAGE LAW

When a nursery is maintained on land on which a mortgage is about to be given the parties should consider carefully the possible need for a clause clearly settling the question whether the mortgage is intended to cover nursery stock growing or to be grown upon the premises.

In a Texas case, the court of civil appeals decided that on foreclosure of a mortgage it must be assumed, in the absence of proof to the contrary, that the parties did not intend that the mortgage cover stock growing for the purpose of ordinary commercial sale in the course of the mortgagor's nursery business. (196 S. W. 626.) The court said that the evidence indicated that the parties to the mortgage recognized that the growing stock's chief value consisted in its prospective removal and sale. It would not only have no value if permanently left in the ground, but would tend to impair the value of the land as a whole.

### Earlier Opinion

On hearing an earlier suit involving the same mortgage the court had said: "If the evidence justified the conclusion that at the time the mortgage was executed it was contemplated by the parties that the mortgagor should have the right each year to sell the nursery stock without accounting to the mortgagee for the proceeds of such sales, and that this right has been exercised by the mortgagor continuously," [it should be concluded by the court] "that it was the intention of the parties that the nursery stock placed or grown on the land was to be regarded as personal property and not subject to the mortgage."

### WARRANTY WAIVED

When nursery stock is sold under a warranty that it is sound, but the buyer sets the trees out, knowing that they are unsound, does he thereby waive a claim based upon a theory of breach of warranty?

Yes, according to a decision by the Nebraska Supreme Court (93 N.W. 920). The court said that where the buyer of fruit trees claimed that they were delivered to him in poor condition and that the roots were rotten, but admitted that nevertheless he set the same out and undertook to make them grow,

# SPECIALS

We have a surplus in the following. These liners are very nice and have a very fibrous root system. No better liners can be found.

## ILEX CRENATA ROTUNDIFOLIA

	100	1000	
6 to 8 ins.	\$12.00	\$110.00	
8 to 12 ins.	15.00	140.00	

## JUNIPERUS CHINENSIS PFITZERIANA

	100	1000	
6 to 8 ins.	\$12.00	\$110.00	
8 to 12 ins.	15.00	140.00	

Write for complete catalog.

## BLACKWELL NURSERIES

Semmes, Ala.

his conduct in thus accepting the trees constituted a waiver of the express warranty as to quality.

The court said: "Defendant had inspected the stock. We think it was his duty to take some steps to notify plaintiff that the quality was unsatisfactory, if such were the case, and that the stock would not be received. We cannot reconcile his statement that the trees, when he first saw them, were rotten so that the roots broke off, with his further testimony that he planted them the next spring and cared for them, apparently expecting them to grow. At any rate, having elected to keep them and to exercise acts of ownership over them, he waived any objection as to their quality." A. L. S.

## LANDSCAPE MEN'S LIEN

A Missouri law provides for the filing and enforcement of a nurserymen's and landscapers' lien against premises improved by them, but the law specifically provides:

"Such lien shall be enforceable only against the property of the original purchaser of such plants unless the lien is filed against the property prior to the conveyance of such property to a third person."

The landscaping was done for a housing development company before lots were sold, but no lien had been filed. The Kansas City, Mo., court of appeals decided that the lien was valid as against the development company but not against the purchaser of the lots sold before the lien was filed. (318 S.W. 2d 519.)

A. L. S.

GRAND opening was held recently at Conard's Garden Center, Okemah, Okla. Manager of the new enterprise is Audrain Biddy.

## DECIDUOUS FLOWERING SHRUBS

### Specimen Plants

**Red-Leaved Barberry**, 24 to 32 ins.  
**Green-Leaved Barberry**, 20 to 30 ins.

**Forsythia Lynwood Gold**, 5 to 6 ft.  
**Forsythia Spring Glory**, 5 to 6 ft.  
**Spiraea vanhouttei**, 36 to 45 ins.  
**Weigela Eva Rathke**, red, 40 to 45 ins.

**Almond**, pink, 35 to 38 ins.  
**Philadelphus grandiflorus**, 58 to 68 ins.

These are not ordinary plants by any means. Having been properly spaced, well pruned, irrigated, fertilized and cultivated, they are ready for any landscape job. 75¢ B&B or 50¢ E.R. F.O.B. our farm.

## BIG RIVER NURSERY

Dundee, Miss.

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## PINK DOGWOOD LINERS

**Silver Maple**, **Hall's Honeysuckle**, **Flowering Peach**, **Forsythia**, **Crab Apple**, **Fruit Trees**, **Poplar**, **Privet**.

Write for trade list.

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**TREE FARMERS**  
1958 crop seed of **Grand Fir** and **Douglas Fir** from choice Christmas tree areas.

**Abies grandis**, \$3.50 per lb.  
**Pseudotsuga taxifolia caesia**, \$9.00  
**FRANK H. ROSE**  
1020 Poplar St. Missoula, Mont.

## FOREST SEEDS OF CALIFORNIA

Since 1952

P. O. Box 561  
Davis, Calif.

Native coniferous seed for direct seeding and forest nurseries.

## WAX LIGUSTRUM

Each

15 to 18 ins.	\$0.60
18 to 24 ins.	.75
24 to 30 ins.	1.00
30 to 36 ins.	1.50

All full, heavy plants

## GARDENIAS

18 to 24 ins.	.60
24 to 30 ins.	.75
30 to 36 ins.	1.00

## Fortunei and Mystery Striata Nana

12 to 15 ins.	.60
15 to 18 ins.	.75

## POOLE BROS. NURSERY

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## CRAB APPLES FOR AMERICA

By Donald Wyman

63-page report of survey by  
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Gardens and Arboreta

Information on breeding, propagation and culture. All the species and botanical varieties known to be growing in North America are listed, with all available information about the size and color of their flowers and fruits, date of origin, natural habitat, introducer or originator and sources where grown today.

Price, \$2.00, postpaid.

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## CALIFORNIA ASSOCIATION OF NURSERYMEN

ELMER J. MERZ, Executive Secretary

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### LOS ANGELES CHAPTER

The February 25 meeting of the Los Angeles chapter of the California Association of Nurserymen met at Henry's restaurant, Arcadia. Carl Zanger, Perry's Plants, Montebello, member of the board of directors, introduced the guests, who included Mr. and Mrs. Ishizu, Sunnyslope Gardens, San Gabriel; Harvey Johnson, president, National Cactus Society, and Mrs. Johnson; Ralph Klages, president, Orange County chapter, C. A. N.; Bill Schoenfeld and Stan Taylor, Germain's, Inc., Los Angeles; Bill Cayle, Rex Hardware & Garden Supply, Huntington Park, and Mrs. Cayle; Stuart Bone, Town & Country Nursery, Whittier, and Cal Reed, Jack Reid and William Churchill, Standard Clay Products, Glendora.

First to speak to the group was James Perry, president, C. A. N., who talked about the "Plant a Tree" campaign. Next, Otto Martens, Deigaard Nurseries, Monrovia, conducted a plant forum, introducing many new plants. William Adams, of the Los Angeles Times, then spoke to the chapter, explaining about the cooperative advertisement that will appear in the newspapers for the Can-Can Carnival promotion in April.

Introduced by the program chairman, Chuck Vogels, Chuck's Nursery, Covina, was the speaker of the evening, Joe Berger, H. V. Nootbaar & Co., Pasadena. In his talk, "How To Get Better," he stressed points of better salesmanship, such as character, loyalty and honesty, as excellent ways to hold old customers and add new.

Richard Meadows, Sec'y.

### MONTEREY BAY CHAPTER

At the February 19 meeting of the Monterey Bay chapter, California Association of Nurserymen, held at the Chuck Wagon restaurant, Salinas, 30 members and guests were present when President E. B. Stone, E. B. Stone & Son, Salinas, called the meeting to order, at 9:30 p. m. and welcomed Joseph Solomone, Solomone & Hoy, landscape nurserymen, Carmel, and Jack Wick, assistant executive secretary of the C. A. N.

After the minutes were read and corrected, the chapter passed the motion to adopt the scholarship proposal drafted by the board of directors and read by Bruce Douglass, Douglass Nursery, Santa Cruz. According to the proposal, the chapter will provide \$200 yearly to aid a student majoring in ornamental horticulture at the California State Polytechnic College, San Luis Obispo. The chapter's fund for the scholarship will be financed by voluntary contributions from regular, affiliate and associate members and by raffles of merchandise. The awardee student will be chosen by the college, subject to the chapter's approval, and members of the chapter will make known available work for the student to further aid him financially.

A report of the northern California institute held at the University of California at Davis, was read

by Sherrill Ellsworth, E. B. Stone & Son. Adding to the report, Mr. Ellsworth told of the effective talk given by R. H. Sciaroni, farm adviser of San Mateo county, "A Dynamic Approach Is Needed in the Nursery Business," in which Mr. Sciaroni warned of impending higher costs, higher taxes and soil shortages that will be a part of the otherwise wonderful future that awaits the "dynamic nurseryman."

Ben E. Roth, Alladin Nursery, Watsonville, then opened a discussion on the new bureau of nursery service, addressing Mr. Wick with his queries. Mr. Roth feels a clarification is needed on the ruling regarding dead and/or dying bare-root stock, as inspectors in various counties regard the material differently. Mr. Wick asked Mr. Roth and Louis Olave, Hollister Garden Shop, Hollister, a chapter director and past president, to write the office at once concerning this problem.

Mr. Wick, speaker of the evening, opened his remarks by congratulating the chapter on its scholarship proposal and citing the need in the industry for trained personnel. He then pointed out the advantages and benefits of membership in the state association by telling of four indi-

Your customers expect you to sell only the best. Do it with Stribling's choice variety of trees and watch your volume increase. Fruit trees . . shade trees . . flowering trees . . all grow more profits for you when they are Stribling's Growing Quality Trees—products of 48 years of selective development in one of California's largest, most respected nurseries.



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vidual problems in which the association helped the members, saving them a vast amount of money. Mr. Wick also mentioned the Can-Can Carnival advertising promotion, informing the group that the San Diego chapter is leading the chapters in the project.

The board of directors' meeting followed.

Clayton G. Pleimann, Sec'y.

#### TRI-COUNTY CHAPTER

The February 26 meeting of the Tri-County chapter of the California Association of Nurserymen was held at the Ventura's Women's Center, Ventura, and was called to order at 7:30 p. m. The minutes of the previous regular meeting and the board of directors' meeting were read before the guests were introduced. There were 33 persons in attendance.

A question raised to the board of directors as to why they voted to stand opposed to the minimum wage and fair employment practices bills was answered by board members, and there was no further discussion.

Walter Barrows, Griffin & Morgan, Santa Barbara, secretary of the chapter, was named delegate to the C. A. N. directors' meeting that was held at Los Angeles, March 31, inasmuch as Harry Stribling, the chapter's director, would have retired from Kallman's Garden Nursery, Santa Barbara, prior to that date.

A slide-illustrated program by Mr. and Mrs. Ralph Curtis ended the meeting.

Walter S. Barrows, Sec'y.

#### SEQUOIA CHAPTER

The Sequoia chapter of the California Association of Nurserymen met February 27 at Walt's cafe, Eureka, with Ron Kausen presiding. All of the members decided to participate in the Can-Can Carnival advertisement promotion, and in a discussion concerning the rhododendron week program the first week of May, member nurseries agreed to participate. Committees were appointed for both events. Before the meeting was adjourned, colored slides of rhododendrons were shown.

Christine Kemp, Sec'y.

#### LAMMERTS HEADS GERMAIN'S ROSE GROWING

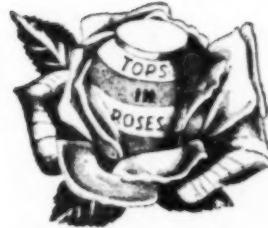
The appointment of Dr. Walter E. Lammerts to head the expanded rose research and hybridizing operations of Germain's, Inc., at Livermore, Calif., has been announced by Walter R. Schoenfeld, Jr., president of the seed firm.

## ALMOST READY FOR YOUR INSPECTION



## OUR NEW 1959-1960

### List of



Old names you already know —  
new names you will want to know —  
we'd be pleased to have YOUR NAME  
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### ROSES

Top-quality, northern California, field-grown, patented and standard bush and tree roses. Write for list and prices.

### ELMER ROSES

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AZALEAS—HOLLIES  
RHODODENDRONS—ROSES

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Dr. Lammerts, who is internationally known as a hybridizer, started his career in 1935, developing several commercial peach varieties that would bear good crops despite warm California winters. He also served on the staff of the University of California at Los Angeles, where he developed the research in ornamental horticulture. While there he carried on an extensive program of ornamental shrub breeding, which resulted in the development of two new

thornless pyracanthas and the popular mountain lilacs, Mountain Haze and Sierra Blue. In addition he was responsible for the origination of a new series of New Zealand tea plants, including the double Snow White and Ruby Glow.

Early in his career the development of the Charlotte Armstrong rose made him world famous. Not only has this variety proved to be unusually well adapted to American gardens, but because of its genetical

# JAPANESE MAPLE

(*Acer palmatum*)

These seedlings are the same as we have used for years as understock for our named varieties. They are ready for grafting now!

Quick sellers in containers, too. Plant them in clumps of three—your customers can't resist their fresh green foliage.

New low prices:	Per 100	Per 1000
18 to 24 ins.	\$23.00	\$200.00
12 to 18 ins.	18.00	150.00
6 to 12 ins.	13.00	100.00

## VIBURNUM CARLESI

Bushy, field-grown plants are loaded with flower buds. Your customers find this shrub interesting the year around. Fragrant, light pink flower clusters in spring; gray-green foliage turns brilliant red in fall.

2 to 3 ft.	\$1.25
1 1/2 to 2 ft.	\$1.10

**IMMEDIATE DELIVERY.** Air Mail, Write or Phone Your Order Today!



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background, it has become the parent of many other famous rose varieties. His subsequent introductions include the unique Descanso Pillar and the All-American Rose Selections winners, Chrysler Imperial, Queen Elizabeth, Golden Showers and Starfire.

### CAN-CAN PUBLICITY

A special announcement April 2 on the nation-wide television and radio program, "Queen for a Day," sponsored that day by Germain's, Los Angeles, will open the Can-Can Carnival, the group merchandising campaign of the California Association of Nurserymen, according to a news item in a recent C. A. N. Bulletin. This announcement will tell the public of the co-operative efforts of the nurserymen and the special sales advantages for customers patronizing member nurseries during the promotion April 3 to 10.

### HEADS C. OF C. COMMITTEE

J. Awdry Armstrong has been named chairman of the agricultural committee of the Los Angeles chamber of commerce. President of Armstrong Nurseries, Inc., Ontario, he succeeds F. R. Wilcox, general manager of Sunkist Growers.

A member of the chamber's agricultural committee since 1950, the new presiding officer has served as vice-chairman since 1955. He is past president of the Ontario chamber of commerce and has served the nursery industry as 2-time president of the California Association, as president of the American Association of Nurserymen, and member of All-America Rose Selections. He also served as the executive chairman of the California international flower show in 1957 and 1958.

### CALIFORNIA NOTES

The United States forest service has warned tree owners and pest-control operators that the ips beetles, also known as pine engraver beetles, have multiplied dangerously. According to the report made by Charles A. Connaughton, regional forester, the hot, dry autumn of 1958 raised the population enormously, and the state's pine woods are now full of them. In the spring they will come out of hiding. They damage all kinds of pines, and control by spraying is difficult if at all possible. Tree owners are advised to clean up all pine debris so the beetles which are still in hibernation can be destroyed.

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Kordes Perfecta  
Pink Peace

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**OREGON BULB FARMS**  
P. O. Box 512  
GRESHAM, OREGON

Lilies  
Daffodils

# QUALITY LINERS

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Write for List Today  
**H & S Personality Roses**  
Bred for American Gardens  
HOWARD & SMITH, INC.  
Montebello, Calif.



# OUR SPRING SPECIALS

Prepaid to your city.

## ROEDING'S QUALITY



### FRUIT TREES

Grown in decomposed granite soil, where the '49ers panned gold. Firm buds, strong fibrous root systems. Minimum order, 10 per variety.

**APPLES**,  $\frac{1}{2}$ -in. cal., 55¢;  $\frac{3}{4}$ -in. cal., 60¢

Red Delicious

Red Gravenstein

Red Rome Beauty

Yellow Delicious

Yellow Newtown Pippin

**APRICOT**,  $\frac{1}{2}$ -in. cal., 60¢;  $\frac{3}{4}$ -in. cal., 65¢

Tilton on Apricot

Tilton on Marianna 2624

**CHERRY**,  $\frac{1}{2}$ -in. cal., 60¢;  $\frac{3}{4}$ -in. cal., 70¢;  $\frac{5}{8}$ -in. cal., 75¢

Bing on Mazzard

**NECTARINE**,  $\frac{1}{2}$ -in. cal., 55¢;  $\frac{3}{4}$ -in. cal., 60¢

John Rivers

**PEACHES**,  $\frac{1}{2}$ -in. cal., 50¢;  $\frac{3}{4}$ -in. cal., 55¢;  $\frac{5}{8}$ -in. cal., 60¢

Cardinal Nectar

Elberta Redglobe

Klener Early Elberta

**PEAR**,  $\frac{3}{4}$ -in. cal., 50¢;  $\frac{1}{2}$ -in. cal., 55¢;  $\frac{5}{8}$ -in. cal., 60¢

Beurre Hardy on French

Beurre Hardy on Quince

**PRUNE**,  $\frac{3}{4}$ -in. cal., 50¢;  $\frac{5}{8}$ -in. cal., 60¢

Coates 1418 on Marianna 2624

**POMEGRANATE**,  $\frac{3}{4}$ -in. cal., 50¢;  $\frac{1}{2}$ -in. cal., 55¢

Wonderful

### ROYAL WALNUT SEEDLINGS

Our own introduction—a cross between eastern and northern California Black Walnut—more resistant to disease and a stronger grower than California Black seedling.

$\frac{3}{4}$ -in. cal., 35¢;  $\frac{1}{2}$ -in. cal., 45¢;

$\frac{5}{8}$ -in. cal., 40¢;  $\frac{3}{4}$ -in. cal., 50¢.

Grown in San Francisco Bay Area on hardy Multiflora root stock. Easy to sell—not too large—not too small. Minimum order, 10 per variety.

### PATENTED BUSH ROSES

Chrysler Imperial, No. 1, 1 $\frac{1}{2}$

Circus, No. 1 $\frac{1}{2}$

Fashion, No. 1, 1 $\frac{1}{2}$

First Love, No. 1 $\frac{1}{2}$

Fusilier, No. 1, 1 $\frac{1}{2}$

Gold Cup, No. 1, 1 $\frac{1}{2}$

Goldilocks, No. 1, 1 $\frac{1}{2}$

Helen Traubel, No. 1 $\frac{1}{2}$

Isobel Harkness, No. 1 $\frac{1}{2}$

Ivory Fashion, No. 1, 1 $\frac{1}{2}$

Jiminy Cricket, No. 1, 1 $\frac{1}{2}$

Linda Porter, No. 1 $\frac{1}{2}$

Love Song, No. 1, 1 $\frac{1}{2}$

Mojave, No. 1, 1 $\frac{1}{2}$

New Yorker, No. 1 $\frac{1}{2}$

Nocturne, No. 1 $\frac{1}{2}$

Poetry, No. 1, 1 $\frac{1}{2}$

Pinocchio, No. 1 $\frac{1}{2}$

Queen Elizabeth, No. 1, 1 $\frac{1}{2}$

Starfire, No. 1, 1 $\frac{1}{2}$

Vogue, No. 1 $\frac{1}{2}$

White Bouquet, No. 1, 1 $\frac{1}{2}$

White Knight, No. 1 $\frac{1}{2}$

### ROSES

### PATENTED CLIMBING ROSES

Golden Showers, No. 1, 1 $\frac{1}{2}$

Peace, No. 1, 1 $\frac{1}{2}$

### NONPATENTED CLIMBING ROSES

Blaze, No. 1 $\frac{1}{2}$  (10 to 99), 47¢

### TREE ROSES

Bare-root, 3-year-old, strong, bushy heads, straight heavy stems. No. 1 grade, \$3.75

Medium grade, \$3.25

Circus, No. 1, medium

Fusilier, No. 1

Gold Cup, No. 1

Ivory Fashion, No. 1, medium

Linda Porter, No. 1

Love Song, No. 1

Mme. Henri Guillot, No. 1

Peace, No. 1

250 or more ROSES or FRUIT TREES, or combination of both, shipped PREPAID, no charge for packing.

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George C. Roeding, Jr., President

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which has the contract in Santa Clara county, places a value of \$900,000 on each inch of rainfall that it adds to the area by cloud seeding and other up-to-the-minute methods of increasing rainfall. The county has agreed to pay the firm a minimum of \$17,000 for its work and up to \$34,000, if it is agreed that a certain amount of increased rain has fallen on the seeded areas. The water is used to fill percolation dams that furnish underground water for wells for domestic and industrial uses as well as for agricultural irrigation.

Spring classes for commercial spray control operators at San Mateo junior college, San Mateo, include meetings on Tuesday evenings for courses on soils; on Wednesday evenings, pest control, and on Thursday evenings, landscape gardening. The attendance this year exceeded that of previous years. The college charges a fee of \$1 per course. Veterans pay no fees.

The Horticulture Seminar (an organization of graduates of the courses in horticulture at the San Mateo junior college) held its annual banquet and award-giving meeting at the Carriage House at Millbrae February 26. The speaker of the evening was Dr. Julio Borto-

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CONIFERS AND BROAD-LEAVED

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SHADE AND FLOWERING TREES

FRUIT TREE SEEDLINGS

FRUIT TREES

DECIDUOUS SHRUBS

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on

September 26 and 27 there will be tours of the rose ranges and the rose nurseries in the bay area, and on the following days there will be talks on rose-growing problems and plant sales, as well as the usual business meetings. The annual banquet will be held the evening of September 28, and the newly elected board of directors will hold a meeting in the morning of the last day.

Landscape architect Willa Carmack discussed Japanese landscap-

XUM



cereal pathologist will do much toward his development of a state-wide turf grass disease control program, according to John T. Middleton, chairman of the department of plant pathology, U. C. L. A.

Born at Mountain View, Calif., Mr. Endo attended schools in Pennsylvania and was awarded a 4-year scholarship to Temple University, Philadelphia, where his training was interrupted by army service. He was graduated from Rutgers University, New Brunswick, N. J., with honors in 1950. His graduate work in plant pathology was done at the University of Illinois, Urbana, where he has been working since as a U. S. D. A. researcher.

#### PLAN CENTENNIAL GARDEN

Joseph Klupenger, Klupenger Nursery and Klupenger Greenhouses, Portland, has been chosen by Eddie L. Boatwright, manager of the "International Garden of Tomorrow" (a feature of the Oregon Centennial Exposition) to act as chairman of the group coordinating for the garden.

Other members of the committee are Robert Snodgrass, president, Oregon Association of Nurserymen; Ted Knapp, Ted Knapp Greenhouses; Larry Underhill, Portland landscape architect; Robert Hastings, Bob Hastings Greenhouses and president of the Oregon Flower Growers' Association; Mrs. Florence Gerke, landscape architect, Portland, and Mrs. Erma Burris.

Chairman Klupenger called a meeting of the committee plus other nurserymen, florists and growers of the state interested in the garden, February 23 at the Portland Wholesale Nursery Co., Portland, for the purpose of outlining all the plans for the garden.

About 50 were in attendance as Ed Erickson, of the Portland park bureau, explained the needs of the garden and urged everyone's help and cooperation. Lists of the plant needs are being given to nurserymen of the state, and each is being asked to let Chairman Klupenger or others of the committee know what can be supplied and in what quantities. Material is being received either on a loan or donation basis. Plants donated will become part of a permanent garden to be established after the exposition closes in late summer.

Labor will be needed between the dates of March 1 and June 9. Each nurseryman is being asked to state the time he or his employees can give to the project. Local transporta-

[Concluded on page 114]

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**Specializing in Fruit Tree Seedlings  
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Reliable exporters for general nursery stock since 1922.  
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Instructions for the May 1 issue must be received by Friday, April 10.

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75,000 healthy transplants, twice pinched and budded.

Immediate delivery.

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Chimes ..... (B) Albion ..... (R)  
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Rooted cuttings with breaks \$0.25

8 to 10 breaks, bench-grown ..... .35

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Minimum order 500, at 1000 rate.

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MAIL YOUR ORDER NOW FOR

rooted cuttings of kurumes and Pericats.

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Immediate delivery.

Budded hardy kurumes, Pericats and indicas, for forcing or outdoor planting. Lining-out stock of *Ilex bullata*, *Taxus*, *capitata*, *cuspidata* and *hicksii*.

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(*Atropurpurea*) 2-yr. seedlings.

Per 100 Per 1000

Lining-out ..... \$4.50 \$40.00

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(*Atropurpurea*) 4-yr. transplants.

Heavy stock.

9 to 12 ins. ..... \$24.00 \$200.00

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Our Red Barberry is one of the finest strains in the U.S.A.

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Grapes, Concord, Fredonia; Blackberries, Alfred, Eldorado; Raspberries, Golden Queen, Indian Summer; Sodas; Rhubarb, Asparagus and Blueberries. Send for prices on the above quality stock. L. J. Rambo's Wholesale Nurseries, Bridgman, Mich.

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No. 1 1/4-in. heavy suckers cal. up Per 1000 Per 1000

RED RASPBERRY Latham, Taylor, Durham \$65.00 \$65.00

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Per 1000

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BLACKBERRIES Bailey, Hedrick, Ebony King, No. 1 rooted cuttings ..... 100.00

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Strawberry, Raspberry; medium, \$70.00 per 1000; large, \$75.00 per 1000.

Above sent F.O.B. shipping point.

Pack-out prices on request.

Write for free catalog and wholesale price list describing over 70 varieties of small fruit plants. Latest and best in Strawberry plants.

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Strawberry and Raspberry plants Fresh dug, well-rooted, grown in sandy loam. All plants double inspected. Tied in bunches of 26 and well-cleaned. Sell well in all stores.

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transplants ..... 11.50 90.00

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Free packing. Cash, please.

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Sure Crop ..... \$2.00 \$14.00

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**SCHWAB GOOSEBERRIES**, large as Plums. New seedling (world's largest Gooseberry). Berries often 1 1/2-in. in dia.; highest quality, hardy, very productive, very sweet, 1-yr. heavy, \$4.50 per 10; 2-yr. light, \$6.00 per 10; bearing size, \$7.50 per 10. 5 per cent discount for cash or free baling. Plants that die replaced at half price.

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**ROYAL SEEDLESS BLUE GRAPE**

Highest quality Grapes in existence. Nearly as large as Concord, but much sweeter, harder and heavier bearing. Just as vigorous and healthy. Ripens with Moore's Early, Plant pat. 1961. 2-yr. No. 1, \$3 for \$6.00. Plants that die replaced at 1/4 price.

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Per 100 Per 1000  
No. 1 tips \$4.25 \$38.00  
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**BULBS AND TUBERS**

**TUBEROUS-ROOTED BEGONIAS**  
Large double Camellia-flowering, 8 colors.

Per 100 Per 1000  
Extra large size, 2 1/2-in.  
up \$16.00 \$150.00

2 to 2 1/2-in. 13.50 130.00

1 1/2 to 2-in. 9.00 80.00

1 1/2 to 1 1/2-in. 6.00 50.00

Special, 100 bulbs, 15 each, red, scarlet, pink and yellow, 10 each, white, orange, salmon, copper. Labeled separate, with pictures. Size 2 1/2-in. up, \$16.25; 2 to 2 1/2-in., \$13.75; 1 1/2 to 2-in., \$9.25; 1 1/2 to 1 1/2-in., \$6.25.

50 bulbs, mixed, 2 to 2 1/2-in., \$7.00.

Double fimbriata (Carnation), 1 1/2 to 2-in., 5 colors.

Pleotoc, two tones, rose and white; 1 1/2 to 2-in.

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Bouton de Rose (Rosebud), salmon-rose; 1 1/2 to 2-in.

Pendula, Hanging Basket type, 5 colors; 1 to 2-in.

Multiflora, 4 varieties or mixed, 1-in. up.

All varieties \$12.50 per 100, \$115.00 per 1000.

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Send for our list of 38 varieties and types or advise colors and types desired.

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Per 10 Per 100

4 to 6 ins. \$2.50 \$20.00

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Buxus sempervirens (Boxwood), good plants from open field beds, \$6.00 per 100, \$50.00 per 1000.

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## EVERGREENS, Liners—Continued

POTTED LINERS		POT-GROWN STOCK	
	Each, 100 1000	Each, 100 1000	
2 1/2-in. pots.	Each, 100 1000	Stock from 2 1/2-in. pots	
Taxus, Adams, 1-yr. ....	\$18.00 \$170.00	Arborvitae pyramidalis, 1-yr. ....	\$0.26 \$0.24
Taxus, Adams, 2-yr. ....	24.00 220.00	Arborvitae pyramidalis, 2-yr. ....	
Taxus andersoni, 1-yr. ....	18.00 170.00	7 to 9 ins. ....	.30 .28
Taxus andersoni, 2-yr. ....	24.00 230.00	7 to 9 ins. ....	.30 .28
Taxus andersoni, 3-yr., TT. ....	35.00 325.00	Juniperus, Armstrong, 2-yr. ....	.30 .28
Taxus brownii, 1-yr. ....	18.00 170.00	Juniperus glauca hetzii, 1-yr. ....	.26 .28
Taxus brownii, 3-yr., TT. ....	35.00 325.00	Juniperus glauca hetzii, 2-yr. ....	.26 .28
Taxus capitata, 1-yr. ....	18.00 170.00	7 to 9 ins. ....	.55 .58
Taxus capitata, 2-yr. ....	23.00 220.00	Taxus hatfieldii, 2-yr., 5 to 6 ins. ....	.30 .28
Taxus cuspidata, 1-yr. ....	17.00 160.00	Taxus intermedia, 2-yr., 7 to 9 ins. ....	.30 .28
Taxus cuspidata, 2-yr. ....	22.00 210.00	Taxus columnaris, Adams', 2-yr., 5 to 6 ins. ....	.30 .28
Taxus cuspidata, 3-yr., TT. ....	35.00 325.00	Taxus hicksii, 1-yr. ....	18.00 170.00
Taxus cuspidata, 4-yr., TT. ....	42.00 400.00	Taxus hicksii, 2-yr. ....	23.00 220.00
Taxus hicksii, 1-yr. ....	18.00 170.00	Taxus hicksii, 3-yr., TT. ....	35.00 325.00
Taxus hicksii, 2-yr. ....	23.00 220.00	Taxus hicksii, 4-yr., TT. ....	45.00 425.00
Taxus hicksii, 3-yr., TT. ....	35.00 325.00	Taxus hunnewelliana, 1-yr. ....	18.00 170.00
Taxus hicksii, 4-yr., TT. ....	45.00 425.00	Thuya globosa, 1-yr. ....	19.00 180.00
Taxus hunnewelliana, 1-yr. ....	18.00 170.00	Thuya globosa, 2-yr. ....	25.00 240.00
Thuya occidentalis, 1-yr. ....	18.00 180.00	Buxus sempervirens, 2-yr. ....	4 to 5 ins. .... .22 .20
Thuya occidentalis, 2-yr. ....	25.00 250.00		
Thuya occidentalis, 3-yr. ....	32.00 325.00		
Thuya occidentalis, 4-yr. ....	38.00 380.00		
Thuya occidentalis, 5-yr. ....	45.00 450.00		
Thuya occidentalis, 6-yr. ....	52.00 520.00		
Thuya occidentalis, 7-yr. ....	58.00 580.00		
Thuya occidentalis, 8-yr. ....	64.00 640.00		
Thuya occidentalis, 9-yr. ....	70.00 700.00		
Thuya occidentalis, 10-yr. ....	76.00 760.00		
Thuya occidentalis, 11-yr. ....	82.00 820.00		
Thuya occidentalis, 12-yr. ....	88.00 880.00		
Thuya occidentalis, 13-yr. ....	94.00 940.00		
Thuya occidentalis, 14-yr. ....	100.00 1000.00		
Thuya occidentalis, 15-yr. ....	106.00 1060.00		
Thuya occidentalis, 16-yr. ....	112.00 1120.00		
Thuya occidentalis, 17-yr. ....	118.00 1180.00		
Thuya occidentalis, 18-yr. ....	124.00 1240.00		
Thuya occidentalis, 19-yr. ....	130.00 1300.00		
Thuya occidentalis, 20-yr. ....	136.00 1360.00		
Thuya occidentalis, 21-yr. ....	142.00 1420.00		
Thuya occidentalis, 22-yr. ....	148.00 1480.00		
Thuya occidentalis, 23-yr. ....	154.00 1540.00		
Thuya occidentalis, 24-yr. ....	160.00 1600.00		
Thuya occidentalis, 25-yr. ....	166.00 1660.00		
Thuya occidentalis, 26-yr. ....	172.00 1720.00		
Thuya occidentalis, 27-yr. ....	178.00 1780.00		
Thuya occidentalis, 28-yr. ....	184.00 1840.00		
Thuya occidentalis, 29-yr. ....	190.00 1900.00		
Thuya occidentalis, 30-yr. ....	196.00 1960.00		
Thuya occidentalis, 31-yr. ....	202.00 2020.00		
Thuya occidentalis, 32-yr. ....	208.00 2080.00		
Thuya occidentalis, 33-yr. ....	214.00 2140.00		
Thuya occidentalis, 34-yr. ....	220.00 2200.00		
Thuya occidentalis, 35-yr. ....	226.00 2260.00		
Thuya occidentalis, 36-yr. ....	232.00 2320.00		
Thuya occidentalis, 37-yr. ....	238.00 2380.00		
Thuya occidentalis, 38-yr. ....	244.00 2440.00		
Thuya occidentalis, 39-yr. ....	250.00 2500.00		
Thuya occidentalis, 40-yr. ....	256.00 2560.00		
Thuya occidentalis, 41-yr. ....	262.00 2620.00		
Thuya occidentalis, 42-yr. ....	268.00 2680.00		
Thuya occidentalis, 43-yr. ....	274.00 2740.00		
Thuya occidentalis, 44-yr. ....	280.00 2800.00		
Thuya occidentalis, 45-yr. ....	286.00 2860.00		
Thuya occidentalis, 46-yr. ....	292.00 2920.00		
Thuya occidentalis, 47-yr. ....	298.00 2980.00		
Thuya occidentalis, 48-yr. ....	304.00 3040.00		
Thuya occidentalis, 49-yr. ....	310.00 3100.00		
Thuya occidentalis, 50-yr. ....	316.00 3160.00		
Thuya occidentalis, 51-yr. ....	322.00 3220.00		
Thuya occidentalis, 52-yr. ....	328.00 3280.00		
Thuya occidentalis, 53-yr. ....	334.00 3340.00		
Thuya occidentalis, 54-yr. ....	340.00 3400.00		
Thuya occidentalis, 55-yr. ....	346.00 3460.00		
Thuya occidentalis, 56-yr. ....	352.00 3520.00		
Thuya occidentalis, 57-yr. ....	358.00 3580.00		
Thuya occidentalis, 58-yr. ....	364.00 3640.00		
Thuya occidentalis, 59-yr. ....	370.00 3700.00		
Thuya occidentalis, 60-yr. ....	376.00 3760.00		
Thuya occidentalis, 61-yr. ....	382.00 3820.00		
Thuya occidentalis, 62-yr. ....	388.00 3880.00		
Thuya occidentalis, 63-yr. ....	394.00 3940.00		
Thuya occidentalis, 64-yr. ....	400.00 4000.00		
Thuya occidentalis, 65-yr. ....	406.00 4060.00		
Thuya occidentalis, 66-yr. ....	412.00 4120.00		
Thuya occidentalis, 67-yr. ....	418.00 4180.00		
Thuya occidentalis, 68-yr. ....	424.00 4240.00		
Thuya occidentalis, 69-yr. ....	430.00 4300.00		
Thuya occidentalis, 70-yr. ....	436.00 4360.00		
Thuya occidentalis, 71-yr. ....	442.00 4420.00		
Thuya occidentalis, 72-yr. ....	448.00 4480.00		
Thuya occidentalis, 73-yr. ....	454.00 4540.00		
Thuya occidentalis, 74-yr. ....	460.00 4600.00		
Thuya occidentalis, 75-yr. ....	466.00 4660.00		
Thuya occidentalis, 76-yr. ....	472.00 4720.00		
Thuya occidentalis, 77-yr. ....	478.00 4780.00		
Thuya occidentalis, 78-yr. ....	484.00 4840.00		
Thuya occidentalis, 79-yr. ....	490.00 4900.00		
Thuya occidentalis, 80-yr. ....	496.00 4960.00		
Thuya occidentalis, 81-yr. ....	502.00 5020.00		
Thuya occidentalis, 82-yr. ....	508.00 5080.00		
Thuya occidentalis, 83-yr. ....	514.00 5140.00		
Thuya occidentalis, 84-yr. ....	520.00 5200.00		
Thuya occidentalis, 85-yr. ....	526.00 5260.00		
Thuya occidentalis, 86-yr. ....	532.00 5320.00		
Thuya occidentalis, 87-yr. ....	538.00 5380.00		
Thuya occidentalis, 88-yr. ....	544.00 5440.00		
Thuya occidentalis, 89-yr. ....	550.00 5500.00		
Thuya occidentalis, 90-yr. ....	556.00 5560.00		
Thuya occidentalis, 91-yr. ....	562.00 5620.00		
Thuya occidentalis, 92-yr. ....	568.00 5680.00		
Thuya occidentalis, 93-yr. ....	574.00 5740.00		
Thuya occidentalis, 94-yr. ....	580.00 5800.00		
Thuya occidentalis, 95-yr. ....	586.00 5860.00		
Thuya occidentalis, 96-yr. ....	592.00 5920.00		
Thuya occidentalis, 97-yr. ....	598.00 5980.00		
Thuya occidentalis, 98-yr. ....	604.00 6040.00		
Thuya occidentalis, 99-yr. ....	610.00 6100.00		
Thuya occidentalis, 100-yr. ....	616.00 6160.00		
Thuya occidentalis, 101-yr. ....	622.00 6220.00		
Thuya occidentalis, 102-yr. ....	628.00 6280.00		
Thuya occidentalis, 103-yr. ....	634.00 6340.00		
Thuya occidentalis, 104-yr. ....	640.00 6400.00		
Thuya occidentalis, 105-yr. ....	646.00 6460.00		
Thuya occidentalis, 106-yr. ....	652.00 6520.00		
Thuya occidentalis, 107-yr. ....	658.00 6580.00		
Thuya occidentalis, 108-yr. ....	664.00 6640.00		
Thuya occidentalis, 109-yr. ....	670.00 6700.00		
Thuya occidentalis, 110-yr. ....	676.00 6760.00		
Thuya occidentalis, 111-yr. ....	682.00 6820.00		
Thuya occidentalis, 112-yr. ....	688.00 6880.00		
Thuya occidentalis, 113-yr. ....	694.00 6940.00		
Thuya occidentalis, 114-yr. ....	700.00 7000.00		
Thuya occidentalis, 115-yr. ....	706.00 7060.00		
Thuya occidentalis, 116-yr. ....	712.00 7120.00		
Thuya occidentalis, 117-yr. ....	718.00 7180.00		
Thuya occidentalis, 118-yr. ....	724.00 7240.00		
Thuya occidentalis, 119-yr. ....	730.00 7300.00		
Thuya occidentalis, 120-yr. ....	736.00 7360.00		
Thuya occidentalis, 121-yr. ....	742.00 7420.00		
Thuya occidentalis, 122-yr. ....	748.00 7480.00		
Thuya occidentalis, 123-yr. ....	754.00 7540.00		
Thuya occidentalis, 124-yr. ....	760.00 7600.00		
Thuya occidentalis, 125-yr. ....	766.00 7660.00		
Thuya occidentalis, 126-yr. ....	772.00 7720.00		
Thuya occidentalis, 127-yr. ....	778.00 7780.00		
Thuya occidentalis, 128-yr. ....	784.00 7840.00		
Thuya occidentalis, 129-yr. ....	790.00 7900.00		
Thuya occidentalis, 130-yr. ....	796.00 7960.00		
Thuya occidentalis, 131-yr. ....	802.00 8020.00		
Thuya occidentalis, 132-yr. ....	808.00 8080.00		
Thuya occidentalis, 133-yr. ....	814.00 8140.00		
Thuya occidentalis, 134-yr. ....	820.00 8200.00		
Thuya occidentalis, 135-yr. ....	826.00 8260.00		
Thuya occidentalis, 136-yr. ....	832.00 8320.00		
Thuya occidentalis, 137-yr. ....	838.00 8380.00		
Thuya occidentalis, 138-yr. ....	844.00 8440.00		
Thuya occidentalis, 139-yr. ....	850.00 8500.00		
Thuya occidentalis, 140-yr. ....	856.00 8560.00		
Thuya occidentalis, 141-yr. ....	862.00 8620.00		
Thuya occidentalis, 142-yr. ....	868.00 8680.00		
Thuya occidentalis, 143-yr. ....	874.00 8740.00		
Thuya occidentalis, 144-yr. ....	880.00 8800.00		
Thuya occidentalis, 145-yr. ....	886.00 8860.00		
Thuya occidentalis, 146-yr. ....	892.00 8920.00		
Thuya occidentalis, 147-yr. ....	898.00 8980.00		
Thuya occidentalis, 148-yr. ....	904.00 9040.00		
Thuya occidentalis, 149-yr. ....	910.00 9100.00		
Thuya occidentalis, 150-yr. ....	916.00 9160.00		
Thuya occidentalis, 151-yr. ....	922.00 9220.00		
Thuya occidentalis, 152-yr. ....	928.00 9280.00		
Thuya occidentalis, 153-yr. ....	934.00 9340.00		
Thuya occidentalis, 154-yr. ....	940.00 9400.00		
Thuya occidentalis, 155-yr. ....	946.00 9460.00		
Thuya occidentalis, 156-yr. ....	952.00 9520.00		
Thuya occidentalis, 157-yr. ....	958.00 9580.00		
Thuya occidentalis, 158-yr. ....	964.00 9640.00		
Thuya occidentalis, 159-yr. ....	970.00 9700.00		
Thuya occidentalis, 160-yr. ....	976.00 9760.00		
Thuya occidentalis, 161-yr. ....	982.00 9820.00		
Thuya occidentalis, 162-yr. ....	988.00 9880.00		
Thuya occidentalis, 163-yr. ....	994.00 9940.00		
Thuya occidentalis, 164-yr. ....	1000.00 10000.00		
Thuya occidentalis, 165-yr. ....	1006.00 10060.00		
Thuya occidentalis, 166-yr. ....	1012.00 10120.00		
Thuya occidentalis, 167-yr. ....	1018.00 10180.00		
Thuya occidentalis, 168-yr. ....	1024.00 10240.00		
Thuya occidentalis, 169-yr. ....	1030.00 10300.00		
Thuya occidentalis, 170-yr. ....	1036.00 10360.00		
Thuya occidentalis, 171-yr. ....	1042.00 10420.00		
Thuya occidentalis, 172-yr. ....	1048.00 10480.00		
Thuya occidentalis, 173-yr. ....	1054.00 10540.00		
Thuya occidentalis, 174-yr. ....	1060.00 10600.00		
Thuya occidentalis, 175-yr. ....	1066.00 10660.00		
Thuya occidentalis, 176-yr. ....	1072.00 10720.00		
Thuya occidentalis, 177-yr. ....	1078.00 10780.00		
Thuya occidentalis, 178-yr. ....	1084.00 10840.00		
Thuya occidentalis, 179-yr. ....	1090.00 10900.00		
Thuya occidentalis, 180-yr. ....	1096.00 10960.00		
Thuya occidentalis, 181-yr. ....	1102.00 11020.00		
Thuya occidentalis, 182-yr. ....	1108.00 11080.00		
Thuya occidentalis, 183-yr. ....	1114.00 11140.00		
Thuya occidentalis, 184-yr. ....	1120.00 11200.00		
Thuya occidentalis, 185-yr. ....	1126.00 11260.00		
Thuya occidentalis, 186-yr. ....	1132.00 11320.00		
Thuya occidentalis, 187-yr. ....	1138.00 11380.00		
Thuya occidentalis, 188-yr. ....	1144.00 11440.00		
Thuya occidentalis, 189-yr. ....	1150.00 11500.00		
Thuya occidentalis, 190-yr. ....	1156.00 11560.00		
Thuya occidentalis, 191-yr. ....	1162.00 11620.00		
Thuya occidentalis, 192-yr. ....	1168.00 11680.00		
Thuya occidentalis, 193-yr. ....	1174.00 11740.00		
Thuya occidentalis, 194-yr. ....	1180.00 11800.00		
Thuya occidentalis, 195-yr. ....	1186.00 11860.00		
Thuya occidentalis, 196-yr. ....	1192.00 11920.00		
Thuya occidentalis, 197-yr. ....	1198.00 11980.00		
Thuya occidentalis, 198-yr. ....	1204.00 12040.00		
Thuya occidentalis, 199-yr. ....	1210.00 12100.00		
Thuya occidentalis, 200-yr. ....	1216.00 12160.00		
Thuya occidentalis, 201-yr. ....	1222.00 12220.00		
Thuya occidentalis, 202-yr. ....	1228.00 12280.00		
Thuya occidentalis, 203-yr. ....	1234.00 12340.00		
Thuya occidentalis, 204-yr. ....	1240.00 12400.00		
Thuya occidentalis, 205-yr. ....	1246.00 12460.00		
Thuya occidentalis, 206-yr. ....	1252.00 12520.00		
Thuya occident			

EVERGREEN LINERS			
	Each, 100	1000	
POTTED LINERS			
Pfitzer Juniper	\$.21	\$.18 1/2	
Burk Juniper, 2-yr.	.25 1/2	.20	
Woodward Globe Arborvitae	.18 1/2	.16	
Pyramidal Arborvitae	.18 1/2	.17	
Dark green American Arb.	.19 1/2	.17	
Heitz glauca Juniper	.20	.17 1/2	
Berckmans' Biosa aurea			
nana, 2-yr.	.20	.17 1/2	
Armstrong Pfitzer Juniper, 2-yr.	.21	.18 1/2	
Taxus media	.20	.17 1/2	
Taxus andersoni	.20	.17 1/2	
Taxus columnaris	.20	.17 1/2	
Taxus browni	.20	.17 1/2	

ROOTED CUTTINGS, in lath			
	house, ready now.		
Pfitzer Juniper	.12	.11	
Pyramidal Arborvitae	.11	.10	
Woodward Globe Arb.	.10	.09	
Dark green American Arb.	.11	.10	

TERMS: Cash with order. Free packing. 300 plants of a variety at 1000 rate.

VOGE NURSERY

New Lebanon, O.

ROOTED CUTTINGS			
	Each, 100	1000	
Taxus cuspidata	\$.10	\$.09	
Taxus hicksi	.10	.09	
Taxus capitata (top)	.12	.10	
Juniperus glauca heitz	.08	.07	
Juniperus pfitzeriana compacta	.10	.09	
Juniper, Andorra	.16	.15	
Thuya occ. American	.08	.07	
Thuya occ. woodwardi	.09	.08	
Ilex convexa	.10	.09	

1-YR. BEDDED LINERS			
	Each, 100	1000	
Taxus cuspidata	.18	.16	
Taxus hicksi	.20	.18	
Taxus capitata (top)	.20	.18	
Juniperus glauca heitz	.16	.15	
Juniper, Andorra	.16	.15	
Thuya occ. American	.16	.15	
Thuya occ. woodwardi	.16	.15	

PINE SEEDLINGS			
	Each, 100	1000	
Scotch, 3-yr., 4 to 6 ins.	2.50	15.00	
Scotch, 3-yr., 6 to 10 ins.	3.00	25.00	
Scotch, 3-yr., 10 to 15 ins.	4.00	35.00	
25 per cent books order. 2 per cent for cash. 300 at 1000 rate.			

F. D. HALL & SONS NURSERY			
	Each, 100	1000	
EVERGREEN SEEDLINGS			
Scotch Pine, 2-yr.			
French D'Auvergne, 4 to 8 ins. \$0.00			
French D'Auvergne, 5 to 10 ins. 6.00			
Spanish Sierra Guad., 4 to 8 ins. 6.00			
Spanish Sierra Guad., 6 to 12 ins. 7.00			
Austrian Pine, 5 to 6 ins. 6.00			
Jap. Black Pine, 4 to 8 ins. 7.00			
Douglas Fir, 3 to 6 ins. 5.00			
non-yellowing, 6 to 12 ins. 6.00			
American Arborvitae, 3 to 6 ins. 5.00			
American Arborvitae, 4 to 8 ins. 7.00			
American Arborvitae, 5 to 10 ins. 8.00			
American Arborv., 10 to 15 ins. 12.00			
Colorado Blue Spruce, 3-yr.			
3 to 6 ins. 6.00			
4 to 8 ins. 9.00			
6 to 10 ins. 12.00			
Douglas Fir, 3-yr. 5 to 10 ins. 7.00			
Douglas Fir, 4-yr., 8 to 16 ins. 12.00			
Terms: Reimbursement with order. Plants at 1000 rate sent via parcel post prepaid, up to zone 5.			

NEINER'S EVERGREEN NURSERY

368 Elcher Road Pittsburgh 2, Pa.

NORTHERN-GROWN PLANTAINER STOCK			
	Each, 100	1000	
TAXUS, cuspidata, capitata, compacta, densa, intermedia, browni, mooni, halstedii, spreading; hicksi, wellersleyana, Pinus mughus \$1.35 each.			
TAXUS CUSP. CAPITATA, 12 to 18 ins. \$1.65 each.			
JUNIPERS, Pfitzer and Andorra, \$1.25 each.			
ARBORVITAE, pyramidalis, nigra, elegansissima, woodwardi, warceana, \$1.25 each. Quantity rates, 100 or more, 100 less. Grown in 1-qt. containers 2 years. Heavily sheared, ready for growing on in larger containers or lining out.			
TERMS: 25 per cent with order, balance prior to delivery. Packing charges extra at cost; pick up at nursery preferred. Purchaser to pay shipping charges.			

PEARSON PARK NURSERIES

3649 Navarre (Near Toledo), Oregon 5, Ohio.

PINE SEEDLINGS AND TRANSPLANTS			
	Each, 100	1000	
Scotch, Austrian, Red Pine, seedlings, 2-0, 2-1, 3-0; 3 to 5 ins. up to 6 to 16 ins. \$10.00 to \$16.00 per 1000. Colorado Blue, White, Norway and Black Hills Spruce, 2-0, 2 to 4 ins. \$18.00 to \$20.00 per 1000. INQUIRIES INVITED.			

LAND-O-PINES NURSERY

Scottville, Mich.

EVERGREEN SEEDLINGS			
	Each, 100	1000	
Scotch Pine, French green; 2-yr. 2 to 5 ins. with heavy roots. \$10.00 per 1000. Write for quantity prices.			

WM. LUBBERS

22 Graafschap Rd. Holland, Mich.

EVERGREENS, ROOTED CUTTINGS			
	Each, 100	1000	
Arborvitae, American, dark green; 6 to 10 ins. 10.00 \$0.09			
Arborvitae, pyramidal, 6 to 10 ins. 10.00 \$0.09			
Arborvitae, globe, 4 to 8 ins. 10.00 \$0.09			
Juniper, Pfitzer, 6 to 10 ins. 10.00 \$0.09			
Juniper, Savin, 6 to 10 ins. 10.00 \$0.09			
Juniper, Von Ehron, 6 to 10 ins. 10.00 \$0.09			
Taxus cuspidata, 6 to 10 ins. 10.00 \$0.09			
Taxus hicksi, 6 to 10 ins. 10.00 \$0.09			
Taxus hicksi (leaders), 6 to 10 ins. 13.00 .12			
250 at 1000 rate. Spring delivery. 3 per cent discount, cash with order.			

DE WINTER'S NURSERY

653 Port Sheldon Rd. Grandville, Mich.

BONSAI AND BARE-ROOT CONIFERS			
	Per 100		
Bonsai-type distorted Jap. Black, Jap. Red, Scotch, Table Mtn., Beach Pines and Douglas Fir	\$10.00		

2-YR. SEEDLINGS			
	Per 100		
Colo. Blue and White Spruce, Jap. Black, Jap. Red, Scotch, Table Mtn., Monastery Pine, bushy, heavy stems, root-pruned and topped, 8 to 12 ins. 10.00			
1-YR. SEEDLINGS			
Big Tree Redwood, Arizona Cypress, Douglas Fir, caribaea, elliottii, Monterey Pine, bushy, heavy stems, root-pruned and topped, 8 to 12 ins. 10.00			

26 other rare Pines, in 2 to 3-in. pots.			
	Per 100		
Seedlings \$1.00 per 100 extra to cover postage.			

EVERGREEN FARMS (PINTO TAG)			
	Per 100		
P. O. Box 497	Per 100		
Palo Alto, Calif.			

HEAVY POT-GROWN SURPLUS LINERS			
	Each	Per 1000	
7000 Pfitzer Juniper	\$0.13	\$12.00	
3000 Pfitzer Compact Juniper	.13	12.00	
1000 Pfitzer blue Juniper	.13	12.00	
3000 Hetz Juniper	.13	12.00	
2000 Pyracantha laalandi	.12	10.00	
3000 Nandina	.12	10.00	
3000 Ilex burfordi (Holly)	.12	10.00	
3000 Ilex rotundifolia (Holly)	.12	10.00	
2000 Wax-leaved Ligustrum	.12	10.00	
6000 Arborvitae, pyramidal	.12	10.00	
2000 Arborvitae, globe	.12	10.00	
3000 Juniperus stricta	.12	10.00	
2000 Berberis julianae	.15	130.00	
1000 Euonymus patens	.12	12.00	
2000 Buxus japonica	.12	12.00	

250 at 1000 rate. Samples on request.

SCHNEIDMAN'S NURSERY			
	Each	Per 1000	
R. B. 8	Paducah, Ky.		

SEEDLINGS AND TRANSPLANTS			
	2-yr. seedlings	100	Per 1000
Scotch Pine (Riga), 4 to 8 ins.	\$.00	\$0.00	
Scotch Pine (Riga), 4 to 8 ins.	\$.00	15.00	
Scotch Pine (Austrian), 5 to 10 ins.	\$.00	20.00	
Scotch Pine (Finland), 5 to 10 ins.	\$.00	20.00	
Norway Spruce, 3 to 6 ins.	\$.00	20.00	
3-yr. seedlings	\$.00	20.00	
Austrian Pine, 4 to 8 ins.	\$.00	22.50	
Austrian Pine, 2 to 4 ins.	\$.00	12.50	
Red Pine, 4 to 8 ins.	\$.00	22.50	
White Pine, 4 to 6 ins.	\$.00	25.00	
White Spruce, 3 to 6 ins.	\$.00	25.00	
Norway Spruce, 3 to 10 ins.	\$.00	27.50	
TERMS: 2 per cent for cash with order, or 25 per cent down, balance C.O.D.			

DUNEGAN NURSERY			
	Clymer, Pa.		

CUTTINGS FROM SAND IN MAY AND JUNE			
	Per 100	Per 1000	
Pfitzer Juniper	\$ 9.00	\$ 80.00	
Andorra Juniper</			

## EVERGREENS, Liners—Continued

## EVERGREENS

	Rooted cutting	Per 100	Per 1000
Taxus cuspidata	5 to 7 ins.	\$9.00	\$85.00
Taxus fastigiata	5 to 7 ins.	9.00	85.00
Taxus intermedia	6 to 8 ins.	9.00	85.00
Juniperus glauca, hetzii	6 to 8 ins.	8.00	75.00

1-yr. liners from frames

Taxus cuspidata, 6 to 10 ins. 15.00 140.00

Taxus fastigiata, 6 to 10 ins. 15.00 140.00

Terms: 2 per cent discount for cash, or 1/3 down with order and balance before shipment.

HILLCREST GREENHOUSES  
Miller Park Franklin, Pa.

## EVERGREENS

	Each, 10
Arborvitae nigra, 3 to 3 ft.	\$2.35
Arborvitae wareana, 2 1/2 to 3 ft.	3.00
Juniper, Andorra, 18 to 18 ins.	2.75
Juniper, Spiny Greek, 18 to 24 ins.	2.25
Juniper, Meyer, 20 to 30 ins.	1.75
Juniper, Savill, 12 to 18 ins.	1.90
Pine, Scotch, 2 to 3 ft.	2.50
Pine, White, 18 to 24 ins.	2.00

## THE HOME NURSERY

Since 1887

Corliss Ingels LaFayette, Ill.

On Route 17. In Stark county.

## EVERGREENS

	Per 100
Cedrus deodara, 6 to 8 ins., s.	\$10.00
8 to 12 ins., s.	12.50
Juniperus glauca, hetzii, 2-yr., bed-grown, 8 to 12 ins.	15.00
Juniperus chin. pfitzeriana, 2-yr., bed-grown, 8 to 12 ins.	20.00
Juniperus horizontalis, plumosa (Andorra), 8 to 12 ins.	15.00
Podocarpus sinensis, 8 to 12 ins.	15.00
Retinospora ericoides, 8 to 12 ins.	10.00

4000 Japonica Lane Mobile, Ala.

## SCOTCH PINE SEEDLINGS

	Per 1000
German strain, 5 to 10 ins.	\$12.50
French strain, 5 to 10 ins.	12.50
Riga strain, 5 to 10 ins.	12.50
Variety, 2-0	Per 1000
German strain, 3 to 6 ins.	\$10.00
Polish strain, 3 to 6 ins.	10.00
French strain, 3 to 6 ins.	10.00
Orders of 5000 or more, 10 per cent discount; 10,000 or more, 15 per cent discount.	

CORNELIUS RYNSBURGER

R. R. 3 Hudsonville, Mich.

2-yr. Pine, Spruce seedlings

	Per 1000
Scotch, non-yellowing, 4 to 6 ins.	\$5.00 \$25.00
5 to 10 ins.	7.00 35.00
Scotch (French), 4 to 6 ins.	5.00 25.00
Scotch (French), 5 to 9 ins.	7.00 35.00
Austrian Pine, 3 to 5 ins.	5.00 25.00
Colo. Blue Spruce, 4 to 6 ins.	6.00 30.00
5 to 8 ins.	8.00 40.00
White Spruce, 4 to 8 ins.	5.00 25.00
8 to 12 ins.	7.00 35.00
Shipped F.O.B. Pulaski, terms, cash.	
Stupka's Nursery, R. D. 1, Pulaski, Pa.	

PINE, SPRUCE, SEEDLINGS AND LINERS 100 1000

	Scotch Pine, 3-yr., 8 to 14 ins.	\$6.00 \$35.00
Colo. Blue Spruce, 4-yr., 8 to 12 ins.	8.00 55.00	
Norway Spruce, 3-yr., 6 to 12 ins.	6.00 40.00	
Juniperus glauca, hetzii, 2-yr., 6 to 12 ins.	25.00	
Spreading Jap. Yew, 3-yr., 4 to 8 ins.	30.00	

Write for complete list.

PAINT CREEK NURSERIES  
R. D. 1 Shippensburg, Pa.

## EVERGREENS, TRANSPLANTS

	4-yr. transplants	Per 1000
White Spruce, 8 to 12 ins.	50.00	
Black Hills Spruce, 8 to 12 ins.	60.00	
Colorado Blue Spruce, 8 to 10 ins.	65.00	
Austrian Pine, 6 to 10 ins.	50.00	
Scotch Pine, 8 to 12 ins., 2-yr. adlg.	15.00	

W. S. YOE NURSERIES

Lake St. Madison, O.

## BERCKMANS' GOLDEN ARBORVITAE OUR SPECIALTY

Sturdy liners, dirt-grown in full sun.

	Each, 100	1000
4 to 6 ins.	8c 71c	
6 to 8 ins.	11c 10c	
8 to 12 ins.	16c 15c	
12 to 16 ins.	22c 20c	

## THE BUSH RANCH

140 Woodland Dr. Thomasville, Ga.  
James W. Lawson, Mgr. Phone CA 6-4245

## EVERGREENS

Seedlings and transplants for Christmas trees, timber, ornamentals, windbreaks, 10 STRAINS OF SCOTCH PINE TO CHOOSE FROM. A strain for every situation. Douglas Fir, Arborvitae, Austrian Pine. All stock graded for uniform plantation stands. Write ED. KINNE

BIG FLATS NURSERY, BIG FLATS, N. Y.

## CHRISTMAS TREE SEEDLINGS 1000

	Scotch Pine, French, 3-0, 1 to 12 ins.	\$32.00
Strains: Amer., green, Polish, Ger., Belgium.		
Our beds are seeded very lightly; as a result our seedlings have ample room for full growth in both roots and tops. You are assured of heavier stock with much greater success in planting. Write for complete price list of Pine, Fir and Spruce.		
RAYMOND NELSON		
Oklahoma Road	Dubois, Pa.	

## EVERGREENS 1000

	Douglas Fir, 2-1, 6 to 8 ins.	\$30.00
Conifer Fir, 2-6 to 8 ins.	8.00 45.00	
O.B. Kilmell, Mont. Olympia, Wash.		
Stock shipped parcel post or express or as specified. Full payment with order, or 25 per cent deposit, balance before shipment.		

(Christmas trees since 1880.)

J. HOFERT CO.

Box 3805 Seattle 24, Wash.

## GRAFTS AND ROOTED CUTTINGS

Blue Spruce.

	Picea pungens, moerheim grafts.	Per 1000
25 to 100, \$1.25 each:		
100 or more, \$1.00 each.		
Ilex hetzii, rooted cuttings, abundance.		
100, 150 each, \$1.00, \$1.25 each.		

All priced F.O.B.

BRUCE KREKLER NURSERY

753 S. Cleveland Massillon Rd.

Akron 13, O.

## EVERGREEN SEEDLINGS 1000

	Scotch Pine, 4-yr., 12 to 22 ins.	\$40.00
Scotch Pine, 3-yr., 8 to 14 ins.	35.00	
Scotch Pine, 3-yr., 7 to 12 ins.	30.00	
Scotch Pine, 2-yr., 4 to 8 ins.	20.00	
Austrian Pine, 4-yr., 10 to 16 ins.	35.00	
Austrian Pine, 3-yr., 8 to 12 ins.	30.00	
Mugho Pine, 4-yr., 4 to 9 ins.	35.00	
Norway Spruce, 3-yr., 8 to 12 ins.	35.00	
American Arborvitae, 3-yr., 8 to 12 ins.	35.00	

KISSINGER'S NURSERY

25 Ridge Ave. Homer City, Pa.

Scotch Pine, seedlings, from selected seed.

Per 100 Per 1000

	2-yr., 2 to 4 ins.	\$2.00
2-yr., 4 to 8 ins.	3.00	15.00
2-yr., 8 to 14 ins.	4.00	25.00
Blue Spruce, 4-yr., 4 to 8 ins.	5.00	25.00
2-yr., 2 to 6 ins.	4.00	25.00
White Spruce, 3-yr., 2 to 8 ins.	4.00	25.00

Terms: Cash with order, or 25 per cent down, balance C.O.D.

Vernon Dale Nursery, R. D. 4, Meadville, Pa.

Book your orders in advance.

Cash F.O.B. your truck or will arrange trucking.

KANEFF'S NURSERIES, MARIETTA, O.

LANDSCAPE MATERIAL, B&B

Taxus 200 2 1/2 ft. capitata, 200 thymerae

cuspidata, 2 1/2 ft. spread; 600 intermedia

cuspidata, 2 1/2 ft. spread; 600 hicksii, 18 to

24 ins.; 350 globe Arborvitae, 18 to 24 ins.

300 globe Arborvitae, 18 to 24 ins.; 800 leucophyllum, 18 to 24 ins.; 1000 hemlocks, 2 1/2 to 4 ft.; 400 Pieris japonica, 18 ins. to 24 ins.; 600 Pieris floribunda, 18 ins.; 600 Pieris heptaphylla, 2 ft.; 600 Pieris compacta, 2 ft. spread; 150 Ilex crenata, 2 ft. to 3 ft.; 250 Juniperus chin. (golden), 2 to 3 ft.; 200 Jun. plumosa, 3 ft.; 350 2 1/2 ft. Norway Spr.; 300 Arborvitae nigra (Am.), 3 to 3 1/2 ft.

All material first grade and sheared. Also carry a full line of annual plants for spring.

BRAND'S NURSERY

912 Park Ave. Huntington, L. I., N. Y.

Phone HAMILTON 3-2456

## EVERGREENS, ROOTED CUTTINGS

GRAFTS, POTS.

Choice selection in Arborvitae, Junipers, rare Pines, Koster's Blue Spruce, Moerheim Blue Spruce and Taxus in variety.

Send for new list out now.

TRAUTMAN NURSERIES

R. R. 1, Box 379 Franksville, Tenn.

## EVERGREENS

See our Classified ad in this issue under LINING-OUT STOCK.

T. G. OWEN & SON, INC.

Columbus, Miss.

Scotch Pine seedlings

Field-run, counted and bundled.

2-yr., 2 to 8 ins. \$12.00 per 1000

3-yr., 5 to 16 ins. 20.00 per 1000

Vernon Dale Nursery, R. D. 4, Meadville, Pa.

## EVERGREENS, B&amp;B

Via purchaser's truck, all B&B 1-24-25-100

Irish Juniper, 24 to 30 ins. \$2.25 \$2.00

Andorra Juniper, 15 to 18 ins. 2.50 2.00

Von Ehren Juniper, 18 to 24 ins. 2.25 2.00

Greek Juniper, 18 to 24 ins. 2.35 2.10

Pyramidal Arbor., 60 to 72 ins. 5.00 4.50

Colorado Blue Spruce, 36 to 60 ins. per ft. 2.00

Sylvania Nursery & Peat Co., New Gallia, Pa. Route 351. Phone Edgewater 6-2133.

## EVERGREENS, CAREFULLY HANDLED

Biotia aurea nana, 18 to 18 ins. \$1.00

Juniperus stricta, 18 to 18 ins. 1.00

Juniperus squamata, 12 to 18 ins. 1.00

Thuya globosa, 12 to 18 ins. 1.00

California Privet (Bol.), 18 to 24 ins. 1.00

Forstythia spectabilis, 4 to 5 ft. 1.00

Complete list upon request.

OAKVIEW NURSERY, SEWELL, N. J.

Phone CANAL 7-2450

## EVERGREENS, B&amp;B

Each, 100

Berberis sargentiana 3 to 3 1/2 ft. 2.50

3 1/2 to 4 ft. 3.00

4 to 5 ft. 4.00

Viburnum rhytidophyllum 20 to 25 ins. 2.00

3 to 3 1/2 ft. 2.50

3 1/2 to 4 ft. 3.00

4 to 5 ft. 4.00

Ilex cornuta compacta, heavy, field 2.25

24 to 30 ins. 2.80

Ilex crenata convexa, 18 to 24 ins. 2.75

24 to 30 ins. 3.00

Ilex rotundifolia, 18 to 24 ins. 2.50

24 to 30 ins. 2.80

Ilex verticillata, 18 to 24 ins. 2.50

24 to 30 ins. 2.80

Ilex mucronata, 18 to 24 ins. 2.50

24 to 30 ins. 2.80

Ilex glabra, 18 to 24 ins. 2.5

## SHEARED STOCK, GOOD BALL

Juniperus glauca	hetzii, 15 to 18 ins.	\$1.00
Juniperus excelsa	strigata, 12 to 15 ins.	.80
Retinospora plumosa	18 to 24 ins.	1.00
Taxus cuspidata	15 to 18 ins.	2.00
Thuja occ.	globosa, 8 to 10 ins.	.60
Euonymus japonicus	15 to 18 ins.	1.00

Write for complete wholesale price list.

SO. JERSEY COLONIAL NURSERIES, INC.  
Route 45, R. D. 1 Salem, N. J.

Phone Salem 2356

FINISHED LANDSCAPE MATERIAL  
(SPECIAL PRICE)

Nick's Compact Juniper	30 to 36 ins.	\$2.35
Keteleer Juniper	5 to 6 ft.	2.75
Pfitzer Juniper	30 to 36 ins.	2.00
Greek Juniper	24 to 30 ins.	1.50
Spaeth Juniper	24 to 30 ins.	1.65
Brockmans' Arborvitae	34 to 36 ins.	1.65
Waxleaf Ligustrum	3 to 4 ft.	1.35
Chinese Juniper	4 to 5 ft.	1.75

MANY VARIETIES OF HOLLY, ALL  
BERRIED.  
PITTMAN NURSERIES, MAGNOLIA, ARK.

## ANDORRA JUNIPER

30 extra nice, well filled,  
3 to 4 ft., \$3.50 each.  
\$75.00 for the lot.

You dig them and fill holes.

## PAUNEE NURSERY

Box 184 Paunee City, Neb.

## JUNIPERS

PFITZER AND ANDORRA  
18 to 24 ins. B&B, \$1.75, AT NURSERY.  
2500 PLANTS TO CHOOSE FROM.  
SPECIAL PRICES ON QUANTITY

## RIVERHILL NURSERY

R. D. 1 Catawissa, Pa.  
PHONE ELMWOOD 6-5733SPECIMEN DOUGLAS FIR  
4 times transplanted, average 7 ft., \$25.00  
each. B&B. Also Yews, Pfitzer and Andorra  
Junipers, Holly and Pines, 50 miles S. E. of  
Chicago. Phone Lowell 2514.

## THE EVERGREEN NURSERIES

Hebron, Ind.

## FRUIT AND NUT TREES

## PECAN TREES, PAPER-SHELL

The nation's finest quality paper-shell  
Pecan trees. Vigorous, heavy caliper, smooth  
trees, grown under irrigation. All staked  
and trimmed for best appearance. Machine  
dug with the whole fibrous root system  
intact. Free, four-color Point of Purchase banners  
showing in life-like color, all varieties.  
Free planting guide for your customers.  
Order now while selections are complete.  
Varieties available: Stuart, Success, Mahan,  
John Garner, Western Schley.

## PRICES

	10	50	100
6 to 7 ft.	\$3.30	\$3.20	\$3.10
7 to 8 ft.	3.85	3.75	3.65
8 to 10 ft.	4.45	4.35	4.25

## WOLFE NURSERY

Box 2000 Stephenville, Tex.

## CLEARANCE SALE

## DWARF APPLE TREES

Vigorous 3/4 to 5 ft., 2-yr.,  
branched Malling IX and VII,  
\$1.00 each.

Cortland, Yellow Delicious, McIntosh.

## BAUMS NURSERY

R. F. D. 4 Danbury, Conn.

## SPECIAL OFFER

## FRUIT TREE STOCK

East Malling type No. 7, well-rooted layers  
(none grafted), \$150.00 per 1000. Price is  
F.O.B. Lincoln Park, N. J. No packing  
charge. Stock is offered to being unsold on  
receipt of order.

## LINCOLN PARK NURSERIES

Lincoln Park, N. J.

## GARDENIAS

## GARDENIA FORTUNEI

Extra heavy plants from 2 1/2-in. pots.  
Per 100 ..... \$12.50

Per 1000 ..... 100.00

## GARDENIA RADICANS

2 1/2-in. pots, per 100 ..... 12.50  
8 to 12 ins., bare-root, heavy, per 100. 12.50

## COTTAGE HILL NURSERY

4000 Japonica Lane Mobile, Ala.

## GARDEN ROOTS

RHUBARB, VICTORIA STRAIN  
Grown one year from divisions, which en-  
sures true stock. Good color and a thrifty  
grower, fine for retail sales.

2-in. plants, \$10.00 per 100. \$90.00 per 1000.

## ROUDEBUSH GARDENS

4191 Needmore Rd. Dayton 24, O.

## RED RHUBARB

Chipman's Canada Red Rhubarb,  
No. 1 divisions, \$25.00 per 100.  
50 at 100 rate.

## VAN DE MOORTELL

## PERENNIAL GARDENS

7250 18 1/2 Mile Rd. Utica, Mich.

## CHIPMAN'S CANADA RED RHUBARB

First-class, freshly cut divisions, 50 for  
\$13.00; 100 or more, 25c each.

Immediate or later shipment.

Inquire for large quantity prices.

C. D. WRIGHT, HAMBURG, IA.

## RED RHUBARB, NO. 1, DIVISIONS

Chipman's Canada Red, MacDonald Red,  
Valentine Red. Also jumbo divisions.

CHAPMAN'S BERRY FARM

East Leroy, Mich.

## GERANIUMS

## QUALITY GERANIUM CUTTINGS

Rooted. \$8.50 per 100. \$80.00 per 1000.  
Special varieties slightly higher. Catalog of  
over 150 leading varieties free.

C. SECRIST, MUSCATINE, IA.

## GROUND COVERS

## PERIWINKLE

Hardy running Myrtle (Vinca minor),  
heavy 15 to 25-cane clumps of better quality,  
dug and shipped fresh, \$50.00 per  
1000.Honeysuckles, (H. halliana), 2 to 3  
branched, \$45.00 per 1000.English Ivy (Hedera helix), 1-yr., rooted  
cuttings, \$50.00 per 1000.Pachysandras, 1-yr., rooted cuttings, \$50.00  
per 1000.

## H. C. WAUGH

Box 41, Upper River Rd. Gallipolis, O.

## GROUND COVERS

Ajuga genevensis ..... \$ 5.00 per 100  
Ajugas, red-leaf ..... 5.00 per 100

Ajugas, variegated leaf ..... 10.00 per 100

Vinca minor, variegated ..... 30.00 per 100

Euonymus fortunei colorata ..... 20.00 per 100

2 1/2-in. plant bands ..... 20.00 per 100

HOPPERTON NURSERY Naperville, Ill.

P. O. Box 65

Hardy Myrtle (Vinca minor), plants with  
20 leads or more and good roots, \$6.00 per  
100, \$45.00 per 1000. Pachysandras, sand-  
rooted cuttings, \$40.00 per 1000. English Ivy,  
sand-rooted cuttings, \$40.00 per 1000. Cash.  
Also potted stock of all items listed.

Samuel L. Minder, 305 Euclid Ave., Lancaster, Pa.

HARDY MYRTLE  
(Vinca minor)

20 to 30 leads, \$50.00 per 1000.

5000 and over, \$45.00 per 1000.

## VAUGHAN'S NURSERY

R. R. 2 Granger, Ind.

## HARDY PLANTS

## STRONG FIELD-GROWN PERENNIALS

(Priced each, per 10 or more) Each

## NEW DWARF ASTERS

Cantabury Carpet (8 to 10 ins. tall) \$4.20

Little Blue Boy (6 ins. tall) ..... 25

Persian Rose (15 ins. tall) ..... 20

Pink Bouquet (8 to 10 ins. tall) ..... 25

Romany (Roman-purple, 10 to 15 ins.) ..... 25

Rose Serenade (rose-pink, 12 ins.) ..... 25

Snowball (white, 12 ins. tall) ..... 20

ASTER Frikartii Wonder of Staffa ..... 25

ASTILBES, Bonna (carmine-pink) ..... 30

Deutschland (white) ..... 30

Erica (rose, tall) ..... 30

Fanol (garnet-red) ..... 35

Gloria (deep pink) ..... 30

Peachblossom (shell-pink) ..... 25

## BLEEDING HEART Sweetwhite, white

CORAL BELLS, Bessingham Hybs. ..... 20

Pluie de Feu, White Cloud ..... 25

## DAY LILIES, hyperion (canary-yel.)

LYTHRUMS, Morden's Gleam and Rose.

TRITOMAS, Springtime, White Giant.

Immediate delivery. List on request.

Cash with order. F.O.B. Canby, Ore.

## CASCADE GARDENS

R. I. Box 509 Canby, Ore.

## GYPSOPHILA BRISTOL FAIRY

Strong 2 1/2-in. pot plants, grafted.

Per doz. ..... Per 1000

\$4.00 ..... \$25.00

25 at 100 rate; 250 at 1000 rate.

## BLUE ACRE GARDENS

P. O. Box 337 Piqua, O.

## PERENNIALS

Over 475 varieties of choice premium stock.

Send for catalog.

## SPRINGBROOK GARDENS, INC.

Mentor, O.

## PITZONKA'S FIELD-GROWN

## PERENNIALS

Strong field-grown plants. Write for trade

list.

## PITZONKA'S PANTRY FARM &amp; NURSERY

Bristol, Pa.

## HARDY PLANTS

WELL-DEVELOPED, MATURE PLANTS  
WITH EXCEPTIONALLY FINE, STRONG  
ROOTS, CAPABLE OF MAKING AN ATTRACTIVE  
DISPLAY THIS SEASON. WE ARE LISTING BELOW A FEW OF OUR  
MORE POPULAR ITEMS. WRITE FOR OUR COMPLETE LISTING ON ALL OF  
OUR FINE PLANTS.

Per 10 Per 100

AQUILEGIA (Columbine)

Mrs. Scott Elliott's ..... 1.75 \$12.00

ARTEMISIA Silver Mound ..... 1.75 12.00

COREOPSIS LANCEOLATA

double Sunburst ..... 1.75 12.00

DIANTHUS PLUMARIUS, a fine

mixture ..... 1.75 12.00

ANTHEMIS TINCTORIA, clear

yellow Daisy ..... 1.75 12.00

ASCLEPIAS TUBEROSA, bright

orange ..... 1.75 12.00

CAMPANULA CALVCANTHENA

(Canterbury Bells) ..... 1.75 12.00

Available in separate colors: Lilac, dark

blue, rose and white.)

CAMPANULA ROTUNDIFOLIA

(Blue Bells of Scotland) ..... 1.75 12.00

CHRYSANTHEMUM MAXIMUM

(Shasta Daisy)

Alaska, large white ..... 1.75 12.00

Dieners' Hybrid ..... 1.75 12.00

(An assortment of frilled, single, semi

and full double Shasta.)

DICENTRA SPECTABILIS (old

fashioned Bleeding Heart) ..... 3.75 35.00

DELPHINIUMS

Belladonna, light blue ..... 1.75 12.00

Bellamoss, dark blue ..... 1.75 12.00

Wrexham strain, unusual assort-

ment of Hollyhock-type of

flowering Delphinium ..... 1.75 12.00

GYPSOPHILAS (Baby's Breath)

pacifica, soft pink ..... 1.75 12.00

paniculata, pure white ..... 1.75 12.00

IBERIS SEMPERVIRENS

(Ivy-leaved) ..... 1.75 12.00

LYCHNIS VISCARIA

(MULLEIN) (Feverfew)

Ball's Double White ..... 1.75 12.00

POLEMONIUM (Jacob's Ladder)

1.75 12.00

PYRETHRUM

Robinson's Hybrids ..... 1.75 12.00

PYRETHRUM James Kelway

1.75 12.00

SEDUM SPECTABILE

BRILLIANT ..... 1.75 12.00

STOKESIA CYANEA (Stokes

Aster)

1.75 12.00

TEUCRIUM (Gentian)

chamaedrys ..... 1.75 12.00

THYMES Border Gem

1.75 12.00

TRITOMA PFITZERI

a rich orange ..... 2.00 15.00

TRITOMAS (Poker Plant)

early hybrids ..... 1.75 12.00

VERONICA Minuet, a new soft

pink variety ..... 2.00 15.00

Less 2c per plant on orders for 250 or

more of one variety.

Terms: Cash with order, or 25 per cent de-

posit with balance C.O.D.

WALTERS GARDENS

Zeeland, Mich.

## STRONG FIELD-GROWN PERENNIALS

Per 100

Alyssum sax. compactum ..... \$15.00

Aquilegia Crimson Star ..... 18.00

Aquilegia McKenna Hybrids ..... 20.00

Artemisia Silver Mound ..... 23.00

Chrysanthemum Marconi, reselected

15.00

Dianthus June Carmine ..... 15.00

Funkia variegata ..... 23.00

Gaillardia Burgundy ..... 12.00

Gaillardia Portola Hyb. ..... 12.00

Gaillardia Dazzler ..... 12.00

Geum Lady Stratheden ..... 12.00

Geum Mrs. Bradshaw ..... 12.00

Iberis sempervirens ..... 15.00

Lythrum Morden's Pink ..... 15.00

Pyrethrums. Robinson's dark crimson

20.00

English Hybrids, mixed ..... 12.00

Teucrium chamaedrys ..... 18.00

KINGWOOD NURSERIES

Dept. A Mentor, O.

## HARDY FIELD-GROWN PERENNIALS

Aquelgas, separate colors: Arabis, Aubri-

etas, Campanulas, Carnations, Chives, Del-

phinium Pacific Hybrids, 10 separate colors:

Dianthus, Digitalis, Gaillardias, Geums, Iberis

semperfiriens, English Lavender, Lythrum,

Russell Lupines, Myosotis, Phlox subulata, 15

varieties: Primroses, Pyrethrums (Daisies),

Shasta Daisy Father Read, Sedums, 10 varie-

ties; Sweet Williams, Thymes, Tritomas,

Trollius, Violas, Violets, Helleborus niger and

Doronicums.

If you haven't received our list, send for

it now. 100 or more good varieties.

All plants freshly dug for each order.

Orders taken now for spring delivery.

Shipping date, after March 15.

GEORGE FRANK &amp; SON

Penfield, N. Y.

## HARDY PLANTS—Continued

PERENNIALS		Per 100
Funkia subcordata grandiflora	.....	\$35.00
Funkia Thos. Hogg	.....	25.00
Funkia lanceolata	.....	15.00
Funkia variegata	.....	15.00
Astilbe Fanol	.....	25.00
Sedum spectabile (Brilliant)	.....	15.00
Veronica subensis longifolia	.....	15.00
Veronica Icicle	.....	15.00
Heuchera Plute de Feu	.....	15.00
Lychins viscaria splendens	.....	15.00
Plumbagos	.....	12.00
Myrtle	.....	12.00
Dictamnus Ruber (Gas Plant)	.....	25.00
Cash. F.O.B. our nursery.		
MERRILL'S NURSERY		
870 Madison Ave.,	Painesville, O.	

## DICENTRA SPECTABILIS

Per 50	Per 100	Per 1000
2 to 3 eyes	\$12.00	\$29.00
3 to 5 eyes	16.00	30.00
4 to 6 eyes, extra heavy roots	\$5.00	per 12.
\$9.50 per 25.	\$18.00	per 50.
\$32.50 per 1000.	\$35.00	per 100.

Total of 250 roots at 1000 price.

Nice strong roots, in cold storage now and ready for shipment.

Write for quotation on large quantities.

NEW ENGLAND BULB CO.  
Box 743 New London, Conn.

## Hardy Ferns from the northwest

Polypodium vulgare (Licorice Fern)	.....	100 1000
Struthiopteris spicant (Deer Fern)	.....	15 100
Polystichum muninum (Western Sword)	.....	15 100
Cryptogramma acrostichoides (Parsley Fern)	.....	30
Adiantum pedatum (Maidenhair)	10	75
Also Lithospermum Heavenly Blue and Heather. Write for price list.		
Forest Gardens, Box 84, Wheeler, Ore.		

## VARIEGATED FUNKIA

3 to 5-eye divisions.

\$20.00 per 100 \$180.00 per 1000.

THE HOLLANDIA GARDENS

South Vienna, O.

## THE WAYSIDE GARDENS

Mentor, Ohio

Write for Trade List.

## HARDY FERNS (DORMANT ROOTS)

Ostrich, Clayton, Lady and Maidenhair, \$10.00 per 100, \$75.00 per 1000.

## STRAND NURSERY

Taylors Falls, Minn.

Liriope (Ophionopogon), hardy, evergreen, for walks and borders; strong divisions, \$20.00 per 1000.

Mountville Nurseries, Mountville, Ga.

## SPECIALISTS IN HARDY PERENNIALS

Ask for wholesale offer.

PEARCE SEED CO., Moorestown, N. J.

WELLER'S BETTER PERENNIALS

WELLER NURSERIES CO., Holland, Mich.

Write for trade list.

Primroses, hardy, evergreen; mixed colors only; good blooming size divisions, \$12.50 per 100. Mountville Nurseries, Mountville, Ga.

## HELLEBORUS

## HELLEBORUS NIGER

(Christmas Rose)

3-yr. transplants blooming size. Suitable to pot up for sales on roadside stands and garden centers.

\$50.00 per 100, \$450.00 per 1000.

## C. HOOGENDOORN

Turner Rd., Newport, R. I.

## HEMEROCALLIS

## Hardy Hemerocallis.

Write for wholesale list.

Ortonville Nurseries, Ortonville, Mich.

## HIBISCUS

## HARDY HIBISCUS

Henderson's Giant Hybrids, 8 to 12-in. blooms.

Super Rose, 2-yr. .... \$1.50 each

White Beauty, 2-yr. .... 1.50 each

2-yr. heavy seedlings, mixed.... \$35.00 per 100

1-yr. heavy seedlings, mixed.... 20.00 per 100

Liners, heavy seedlings, mixed,

all blooming stock .... 10.00 per 100

50 at 100 rate. Send for list.

RIEGEL PLANT CO., EXPERIMENT, GA.

## HOLLY

## ILEX OPACA, NORTHERN VARIETIES

2 to 3 ft., 5-yr. in field .... \$ 5.00 each

3 to 4 ft., 5-yr. in field .... 7.50 each

4 to 5 ft., 5-yr. in field .... 10.00 each

Lighter plants, more berries, 3-yr. in field,

\$3.50, \$5.00 and \$7.50.

SIMPSON ORCHARD CO., INC.

1504 Wheatland Rd., Vincennes, Ind.

Phone 489-3.

## HOLLY (ILEX)

FREE packing on all liners. Try these and you will agree there are none finer!

Ilex cornuta burfordi, 2½-in. pots Per 100

(8 to 12 ins.) .... \$15.00

8 to 12 ins. bare-root .... 12.50

12 to 18 ins. bare-root .... 15.00

Ilex cornuta femina, 3-in. pots (8 to 12) 20.00

Ilex crenata convexa, 8 to 10 ins.

bare-root, TT .... 15.00

Ilex crenata Foster No. 1, 6 to 8 ins.

heavy .... 15.00

Ilex crenata helleri, 2½-in. pots,

branched .... 15.00

Ilex crenata hetzii, 3-in. pots

8 to 12 ins. bare-root .... 20.00

Ilex crenata rotundifolia, 10 to 15 ins.

bare-root, TT .... 15.00

Ilex crenata Stokes (pat. 887), 2½-in. pots,

branched .... 20.00

Ilex vomitoria nana, 2½-in. pots.

branched .... 17.50

Other sizes available in the above. Send for listing on these and other fine liners.

SATISFACTION GUARANTEED!

COTTAGE HILL NURSERY

4000 Japonica Lane Mobile, Ala.

## ILEX ROTUNDIFOLIA

Thousands of splendid pruned plants.

12 to 15 ins.... \$1.40 18 to 24 ins.... \$2.35

15 to 18 ins.... 1.85 24 to 30 ins.... 3.35

18 or more, 10 per cent discount.

Send for spring list. Azaleas, Crabs, broad-leaved Evergreens, etc.

THE TANKARD NURSERIES

Exmore, Va.

## CONTAINER-GROWN PLANTS

## ILEX, OUR SPECIALTY

1 and 2-gallon sizes.

Convexa, rotundifolia, burfordi and helleri.

Send for list.

TILLMAN NURSERY

Indiana Highway 62 Newburgh, Ind.

Phone UL 3-5849.

## ILEX OPACA

## SUPERIOR NAMED VARIETIES

WHOLESALE SUPPLIERS

## OF LINING-OUT STOCK

Write for our price list.

HOLLY HAVEN, INC.

Box 75 New Lisbon, N. J.

## VARIEGATED HOLLY

Liners, 10 to 14 ins. tall, 2½-in. pots, 40c.

Ready for October shipping.

F.O.B. Cash with order.

KRUSCHKE GREENHOUSES

Clackamas, Ore.

Quick—Convenient—Cheap!

Selling through the Classified Ads of the American Nurseryman.

## HONEYSUCKLES

## HONEYSUCKLES

Lonicera japonica halliana, extra-heavy No. 1, 3 and 4-yr., 18 to 24-in. field plants. 2 to 4 to 6 leads, \$40.00 per 1000; lighter grade, \$30.00 per 1000; sample, 100, \$4.00. Experienced labor for grading and packing quantity orders. Immediate shipment. No order too large. Phone OR 2-4612.

ROBINSON NURSERY CO., Greenville, Ga.

Hall's Honeysuckle, good plants, well packed, \$20.00 per 1000. F.O.B. our shipping point. Mountville Nurseries, Mountville, Ga.

## IRISES

## JAPANESE IRIS (KAEMPFERI)

SURPLUS STOCK. Repsime, Kati-nami, Melpome, Lucia, Marshall, Columbia, Azurea, Blue Bird, Uchii, 10 to 20 each; 25 to 150. LOHREY FLORAL GARDENS, MENTOR, O.

9,500 Active Nurseries

are in need of stock.

List your offerings in the

American Nurseryman Classified Section.

## IVIES

## BALTIC IVY

Hardiest Ivy. Fine for wall or ground cover. True stock. Well-rooted plants.

Per 1000

Rooted cuttings .... \$ 7.00 \$ 6.50

2-in. pots .... 12.50 115.00

NEW THORNDALE IVY

2½-in. pots .... \$25.00 per 100

Euonymus kewensis, 2-in. pots, 20.00 per 100

EUONYMUS VEGETUS

2-in. pots, \$12.00 per 100, \$110.00 per 1000.

2-yr. field-grown, \$25.00 per 100.

STRATFORD GARDENS

Russell Breeze, M. R. 9 Delaware, O.

## BALTIC IVY, 3-IN. POTS

Vines 5 ft. long (heavy), \$20.00 per 100.

Cash with order. Packing free.

THE KURTZ NURSERIES

7548 Blackberry Rd., University City 24, Mo.

## ENGLISH IVY (HEDEA HELIX).

Rooted cuttings,

\$20.00 per 1000.

FRED C. GLOECKNER &amp; CO., INC.

15 E. 26th St. New York 10, N. Y.

We will be pleased to send you our list upon request.

NURSERY SALES, INC.

P. O. Box 295 Ridgewood, N. J.

## LAWN GRASS AND SEED

## LAWN SEED

Wholesale prices. F.O.B. New York.

50 lbs. 100 lbs.

Sunny Best Mixture ..... \$44.00 \$82.00

contains Merion Blue

Landscape Gardeners' Mixture. 26.00 46.00

Shady Mixture ..... 25.50 45.00

Cemetery Mixture ..... 26.00 46.00

Athletic Field Mixture ..... 23.00 39.50

300 lbs. or more, shipped freight paid.

Send for complete list which shows contents of above and other mixtures, also current prices for individual grasses.

HERBST BROS., SEEDSMEN, INC.

678 Broadway New York 12, N. Y.

Jun 1940

"PERRY K." BLUE GRASS LAWN SEED

Best crop in years; lowest price. Take advantage now. 10 lbs., \$5.00; 25 lbs., \$11.50; 50 lbs., \$19.75; 100 lbs., \$37.50. F.O.B. Cash.

Subject to price change or unsold.

Test weight and analysis excellent.

WALNUT LAWN FARM

Lexington, Ky.

Jun 1940

## LINING-OUT STOCK

## POT LINERS

R—Rose Pots. F—Peat Pots.

Each

Elaeagnus fruitlandii, 2½-in. P. .... \$0.12

Ilex burfordi, 3-in. P. .... 17½

Ilex crenata, 2½-in. P. .... 17½

Ilex crenata hetzii, 2½-in. P. .... 17½

Ilex crenata repandens, 2½-in. P. .... 17½

Ilex opaca East Palatka, 2½-in. P. .... 17½

Laurocerasus caroliniana, 2½-in. P. .... 17½

Magnolia glauca, 2½-in. P. .... 17½

Osmanthus aquifolium, 2½-in. P. .... 17½

Osmanthus fortunei, 6 to 8 ins. .... 17½

Thuja occidentalis compacta erecta, 2½-in. P. .... 17½

Thuja occidentalis globosa, 2½-in. P. .... 17½

Thuja occidentalis nigra, 2½-in. P. .... 17½

Thuja occidentalis pyramidalis, 2½-in. P. .... 17½

Thuja occidentalis wareana, 2½-in. P. .... 17½

BUXUS harlandi, T. 1-yr. .... 68

Buxus harlandi, T. 2-yr. .... 6 to 8 ins. .... 12

Chamaecyparis lawsoniana album, T. 1-yr. .... 6 to 8 ins. .... 12

Chamaecyparis lawsoniana album, T. 2-yr. .... 6 to 8 ins. .... 12

Jasminum floridum, T. 8 to 12 ins. .... 12

Ilex burfordi, T. 2-yr. .... 6 to 10 ins. .... 15

Ilex crenata rotundifolia, T. 2-yr. .... 15

Ilex crenata rotundifolia, T. 2-yr. .... 15

Jasminum floridum, T. 8 to 12 ins. .... 12

Ilex crenata rotundifolia, T. 2-yr. .... 15

FIELD-GROWN LINERS

Ilex crenata rotundifolia, T. 2-yr. .... 15

THE COTTAGE GARDENS OFFERS  
THE FOLLOWING

	100	1000
	rate	rate
Buxus koreana		
3975 2-yr. pots	\$0.35	\$0.30
Calycanthus floridus		
8600 1-yr. s. 6 to 10 ins.	.04 1/2	.04
Cornus elegantissima		
1400 1-yr. tr. 1 1/2 to 2 ft.	.30	.28
Cornus mas		
450 2-yr. tr. 15 to 18 ins.	.25	.22
Cotoneaster divaricata		
750 2-yr. tr. 12 to 15 ins.	.32	.28
780 2-yr. tr. 1 1/2 to 2 ft.	.40	.35
Cyclonia japonica		
2300 1-yr. s. 6 to 12 ins.	.04 1/2	.04
Deutzia gracilis, bushy		
700 1-yr. 6 to 9 ins.	.14	.12
Euonymus a. compacta		
3000 2-yr. tr. 9 to 12 ins.	.45	.35
1700 2-yr. pots	.30	.28
Euonymus rugicans Sarcoxie		
1700 1-yr. 6 to 10 ins.	.22	.20
Hedysarage A. G.		
400 1-yr. No. 1	.14	.13
Ilex c. convexa		
125 2-yr. pots	.35	
Ilex verticillata		
750 2-yr. tr.	.18	.15
Juniperus chin. pfitzeriana		
10,000 1-yr. pots	.25	.22
Juniperus chin. pfitz. compacta		
Kallay		
650 2-yr. pots	.32	.30
Juniperus chin. betzii		
500 2-yr. pots	.28	.25
3875 2-yr. tr. 6 to 10 ins.	.40	.35
Pyracantha c. lalandi		
4800 2 1/2-in. plant bands	.24	.20
Myrica pennsylvanica		
250 1-yr. s.	.16	.14
150 2-yr. s. 8 to 12 ins.	.40	.30
Picea pungens moerheimii		
400 pot grafts		1.20
350 1-yr. from grafts	1.75	1.65
Sorbus aucuparia		
150 2-yr. tr. 12 to 18 ins.	.30	
126 2-yr. tr. 1 1/2 to 2 ft.	.35	
Spiraea Anthony Waterer		
1000 2-yr. tr. bushy	.22	.18
Symporicarpus hancockii		
500 2-yr. tr. 8 to 12 ins.	.35	.30
Taxus cuspidata		
1656 3-yr. tr.	.50	.48
2000 3-yr. TT. root-pruned	.60	.55
4500 4-yr. 8 to 10 ins.		
TT. sheared	.55	.48
Taxus cuspidata capitata		
8000 4-yr. 10 to 15 ins.		
cutting-grown, TT.	.55	.48
500 4-yr. tr. bed	.58	.53
Taxus cuspidata thayerae		
370 2-yr. pots	.30	.28
Taxus densiformis		
2000 2-yr. tr.	.45	.43
4500 5-yr. tr. for canning	1.35	1.25
Taxus media henryi		
500 2-yr. pots	.32	.30
Taxus media andersonii		
1500 4-yr. tr.	.80	.75
Taxus media brownii		
2300 2-yr. tr.	.35	.32
575 4-yr. tr.	.90	.85
Taxus media halimifolia		
350 5-yr. 10 to 12 ins. TT.		
sheared	.80	.75
250 5-yr. tr. for canning	1.25	1.10
Taxus media hattifeldii		
300 5-yr. tr. for canning	1.25	1.10
Taxus media hicksii		
6700 4-yr. 8 to 10 ins. TT.		
sheared	.55	.48
Taxus welsleyana		
270 4-yr. 8 to 10 ins.	.55	.48
Thunia occ. compacta		
150 2-yr. tr.	.40	.35
Thunia occ. hoveyi		
1500 2-yr. pots	.25	.22 1/2
Thunia occ. woodwardii		
8600 1-yr. pots	.20	.18
Tsuga canadensis		
100 5-yr. 10 to 15 ins.		
for canning	.75	.70
Burnbunum cariesi		
1800 pot grafts	.50	.45
Burnbunum opulus nanum		
750 2-yr. pots	.30	.28
Welw.ian variegiata		
1900 1-yr. No. 1	.25	.20
<b>THE COTTAGE GARDENS</b>		
Nick J. W. Krieg Harold E. Hicks		
2707 W. St. Joseph St. Lansing 17, Mich.		
Phones IV 2-9021 or 2-9276		
<b>ROOTED CUTTINGS FROM OPEN FRAMES</b>		
EUONYMUS, radicans upright, Sarcoxie; coloratus, minimus, patens, patens, small-leaved; 100, \$7.00; 1000, \$60.00.		
2-yr. transplants.		
E. radicans upright, Sarcoxie, 30c each.		
Buxus sempervirens, 22 1/2c each.		
<b>EDGAR C. FOX NURS., Humansville, Mo.</b>		
<b>BARBERRY</b>		
Each, 100 1000		
Green, 2-yr. seedlings, lining-out. \$0.03 \$0.02 1/2		
Green, 2-yr. seedlings, branched, 4 to 6 ins.	.03 1/2 .03	
Red, 2-yr. seedlings, lining-out. .04 1/2 .04		
<b>DANECKER'S HI-WAY NURSERY, INC.</b>		
Box 336 Milford, Del.		

## POT-GROWN GRAFTS, MAY SHIPMENT.

All our understocks are potted up during the spring, grown in frames in pots, and summered and grafted the following winter, ensuring the best root system to be grown and assures minimum losses.

Abies nobilis glauca		\$100.00
Abies pinsapo glauca		100.00
*Acer pal. atropurpureum		100.00
Acer dissectum		75.00
Acer dissectum atropurpureum		75.00
*Carpinus betulus fastigata		60.00
Cedrus atlantica aurea		100.00
Cedrus atlantica glauca		75.00
Cherries, Kwanzan and Weeping (root grafts)		20.00
*Cornus florida rubra		50.00
*Cornus florida rubra Prosser		65.00
*Cornus florida pendula		60.00
*Cornus florida flore-plena		60.00
*Cornus florida Welch var.		65.00
Cornus kousa chinensis		25.00
*Cornus kousa speciosa		60.00
*Hamamelis brevipedata		50.00
Fagus sylvatica Tricolor		100.00
Fagus sylvatica riverside		75.00
Fagus sylvatica pendula		60.00
*Fagus sylvatica heterophylla		60.00
Fagus sylvatica fastigata		60.00
Malus Almey (root grafts)		20.00
*Magnolia stellata		75.00
*Magnolia stellata rubra		75.00
*Magnolia stellata Waterlily		75.00
Magnolia parviflora		75.00
Magnolia yulan		75.00
Magnolia cordata (yellow)		100.00
Picea pung. glauca moerheimii		60.00
Pinus cembra		60.00
Pine, Tanyosho		60.00
*Viburnum carlesii		50.00
Viburnum Juddi		50.00
Viburnum Burkwoodi		50.00
Viburnum chenaultii		50.00

Varieties marked with a star can be supplied in 1-yr. field-grown bedded plants, at \$15.00 per 100 extra above the pot-grown grafts.

## SEEDLINGS AND TRANSPLANTS.

Abies concolor, 2-yr. seedlings	\$7.00	\$65.00
Abies douglasii, 2-yr. seedlings	4.00	35.00
Abies douglasii, 3-yr. seedlings	6.00	50.00
Acer palmatum, 1-yr. seedlings	6.00	50.00
Bixa orientalis, 2-yr. seedlings	3.50	30.00
Cornus florida, 1-yr. seedlings	6.00	50.00
Cornus kousa, 1-yr. seedlings	11.00	100.00
Flex opaca, 2-yr. seedlings	11.00	100.00
Tsuga canadensis, 2-yr. transplants, 4 to 6 ins.	9.00	80.00
3-yr. transplants, 6 to 9 ins.	16.00	150.00
4-yr. transplants, 9 to 12 ins.	27.50	250.00
5-yr. transplants, 12 to 15 ins.	50.00	450.00
Picea excelsa, 3-yr. seedlings	3.50	30.00
Picea pungens, 3-yr. seedlings	4.50	40.00
Pinus austriaca, 2-yr. seedlings	7.00	60.00
Pinus sylvestris, 2-yr. seedlings	3.00	25.00
Pinus densiflora, 2-yr. seedlings	6.00	50.00
Pinus mughus, 2-yr. seedlings	5.50	50.00
Pinus thunbergii, 2-yr. seedlings	8.00	75.00
Pinus strobus, 2-yr. seedlings	4.50	40.00
Pinus resinosa, 2-yr. seedlings	6.00	50.00
Viburnum theiferum, 1-yr. seedlings	10.00	90.00
Acer pal. atrop. 1-yr. seedlings	15.00	135.00

Special prices on large quantities. List on demand.

## VERKADE'S NURSERIES, WAYNE, N. J.

## EVERGREENS

Juniperus chin. pfitzeriana comp., 2 1/2-in. pots	\$25.00	Per 100
Juniperus chin. pfitzeriana glauca	20.00	
Taxus Adams, 2 1/2-in. pots	25.00	
Taxus cuspidata, 2 1/2-in. pots	25.00	
Taxus media, 2 1/2-in. pots	25.00	
Thuya pyramidalis, 2 1/2-in. pots	20.00	
Thuya woodwardii, 2 1/2-in. pots	22.50	
Berberis Crimson Pygmy, 2 1/2-in.	25.00	
Philadelphus aureus, 2 1/2-in.	15.00	
Taxus cuspidata	15.00	
Taxus hicksii	15.00	
Thuya pyramidalis imp.	12.00	
Juniper. Andorra	12.00	
Thuya elegansissima	12.00	
Thuya sibirica	12.00	
Juniper. Pfitzer	12.00	
<b>THE HOLLANDIA GARDENS</b>		
South Vienna, O.		
<b>LINING-OUT STOCK</b>		
2 1/2-in. rose pots. Ready for field.		
Per 100 Per 1000		
Juniperus chin. pfitzeriana...	\$15.00	\$140.00
chin. pfitzeriana glauca...	15.00	150.00
excelsa stricta...	16.00	150.00
hibernica fastigiat...	16.00	150.00
keteleri...	16.00	150.00
Swedish sabina...	16.00	150.00
sabina...	16.00	150.00
virginiana burkii...	20.00	190.00
Ilex cornuta femina...	16.00	150.00
Ilex cornuta burfordi...	16.00	150.00
Nandina domestica...	11.00	100.00
Photinia serrulata...	15.00	140.00
Ligustrum Vireary...	15.00	140.00
In moisture-proof, lightweight cartons.		
EMIL R. BRESSER		
FLORIST & NURSERYMAN		
Muskogee, Okla.		

## LINING-OUT STOCK

Per 100 Per 1000

Acer platanoides.		
1-yr. seedlings, 4 to 6 ins.	8.50	\$45.00
1-yr. seedlings, 6 to 9 ins.	7.50	65.00
2-yr. TFR, 15 to 18 ins.	16.50	130.00
2-yr. TFR, 18 to 24 ins.	18.50	150.00
Azalea hinodegiri.		
3-yr. T beds, 6 to 9 ins.	65.00	600.00
Berberis thunbergi.		
Berberis thun. atropurpurea.		
Cornus florida, 1-yr. seedlings.	5.00	45.00
Cornus florida rubra,		
1-yr. grafts, beds.	90.00	850.00
1-yr. grafts, TFR.	18 to 24 ins.	200.00
Cydonia japonica.		
1-yr. seedlings, 6 to 9 ins.	4.50	35.00
1-yr. seedlings, 9 to 12 ins.	5.50	45.00
Euonymus vegetum, 2-yr.		
TFR, 18 to 24 ins.	35.00	300.00
Fagus sylvatica, 2-yr., TFR.		
3-yr., TFR, 9 to 12 ins.	12.00	100.00
Ginkgo biloba, 1-yr. seedlings,		
4 to 6 ins.	8.00	75.00
Liquidambar styraciflua,		
1-yr. seedlings, 6 to 9 ins.	7.50	65.00
1-yr. seedlings, 9 to 12 ins.	8.50	80.00
Quercus palustris,		
1-yr. seedlings, 6 to 9 ins.	8.00	75.00
3-yr., TFR, 18 to 24 ins.	30.00	250.00
Tilia cordata, 1-yr. seedlings, beds.		
4 to 6 ins.	8.50	80.00
6 to 9 ins.	10.00	95.00
9 to 12 ins.	12.00	110.00
15 to 18 ins.	15.00	135.00
Tilia cordata, 3-yr. TFR.		
4 to 6 ft. staked.	75.00	650.00
Viburnum dilatatum, 1-yr. seedlings, 9 to 12 ins.	5.00	45.00
T — once transplanted; TT — twice transplanted; FR — field row.		

## BOULEVARD NURSERIES

Newport, R. I.

Phone VI 6-1263

## STRONG LINERS

Heavy plants for potting.

Leucothoe, to 10 ins.		\$0.50
Pieris japonica, 8 to 10 ins.		.50
Rhododendron hybrida, 6 to 10 ins.		.50
Thuya pyramidalis, 10 to 12 ins.		.75
Azalea mollis, budded, 8 to 12 ins.		.75
Thuya rotundifolia, 12 to 15 ins.		.75
extra heavy, 12 to 15 ins.		.45
Samples at cost.		

## DUGAN NURSERIES, INC.

Center St.

South of Route U. S. 20, east of Painesville.

## L. I. GROWN LINING-OUT STOCK

2-yr-old, lath-grown and sheared.		100
2-yr. Taxus thayerae cusp., 8 to 10 ins.		\$35.00
1500 Taxus hicksii, 8 to 10 ins.		35.00
500 Taxus media cusp., 10 ins.		40.00
2000 Taxus media cusp., 8 to 10 ins.		40.00
3800 Hetz Juniper, 10 to 12 ins.		35.00
2000 Pieris japonica, 12 to 14 ins.		50.00
2000 Taxus crenata, 9 to 10 ins.		40.00
900 Taxus crenata, 9 to 12 ins.		40.00

## BRAND'S NURSERY

912 Park Ave., Huntington, L. I., N. Y.

Phone: HAMILTON 3-2456

## LINING-OUT STOCK

Per 100

Pfitzer Juniper, 6 to 8 ins., 1-yr.		\$0.06
Pfitzer Juniper, 8 to 12 ins., 1-yr.		.10
Pfitzer Juniper, 8 to 12 ins., 3-yr.		.12
Pfitzer Juniper, 10 to 15 ins., 2-yr.		

## LINING-OUT STOCK—Continued

LINING-OUT LIST PRICES SUBJECT TO CHANGE WITHOUT NOTICE.			
ALL POTTED LINERS ON THIS LIST ARE PRICED FOR SHIPMENTS IN PAPER POTS OR CUPS. MINIMUM QUANTITIES ORDERS FOR 25 TO 249 OF A VARIETY IN ONE SIZE TAKE THE 100 RATE. ORDERS FOR 250 OR MORE OF A VARIETY IN ONE SIZE TAKE THE 1000 RATE.			
BACH, 100 1000			
BIOTA AUREA NANA			
2 1/4-in. pots	\$.06	16	\$.05
BIOTA BAKERI			
2 1/4-in. pots	.16	.15	
2 1/4-in. pots	.18	.17	
BIOTA BONITA			
2 1/4-in. pots	.16	.15	
2 1/4-in. pots	.18	.17	
BIOTA BONITA, UPRIGHT			
2 1/4-in. pots	.18	.16	
2 1/4-in. pots	.20	.18	
BIOTA EXCELSA			
2 1/4-in. pots	.17	.15	
2 1/4-in. pots	.19	.17	
BIOTA SIBYLI			
2 1/4-in. pots	.18	.17	
BLAKE LAWSON CYPRESS			
2 1/4-in. pots	.17	.15	
2 1/4-in. pots	.19	.17	
JUNIPER. ANDORRA			
2 1/4-in. pots	.16	.15	
2 1/4-in. pots	.18	.17	
JUN. CHIN. PFITZERIANA COMP.			
2 1/4-in. pots	.18	.16	
*2 1/4-in. pots	.19	.17	
JUN. CHIN. PFITZERIANA NANA			
2 1/4-in. pots	.22	.20	
2 1/4-in. pots	.27	.25	
JUN. EXCELSA STRICTA			
2 1/4-in. pots	.17	.16	
2 1/4-in. pots	.19	.18	
JUN. GLAUCIA HETZI			
2 1/4-in. pots	.18	.16	
2 1/4-in. pots	.20	.18	
JUN. HIBERNICA FASTIGIATA			
2 1/4-in. pots	.17	.16	
2 1/4-in. pots	.18	.17	
JUN. HORIZONTALIS DOUGLASI (Waukegan Juniper)			
2 1/4-in. pots	.20	.18	
JUN. SABINA TAMARISCIFOLIA			
*2 1/4-in. pots	.20		
*2 1/4-in. pots	.22	.14	
THUJA OCC. PYRAMIDALIS			
2 1/4-in. pots	.17	.16	
2 1/4-in. pots	.18	.17	
THUJA OCC. HETZ'S WINTER GREEN			
2 1/4-in. pots	.17	.16	
TAXUS CUSPIDATA			
2 1/4-in. pots	.19	.17	
2 1/4-in. pots	.20	.18	
TAXUS MEDIA HICKSII			
2 1/4-in. pots	.19	.17	
2 1/4-in. pots	.20	.18	
TAXUS MEDIA SIEboldii			
2 1/4-in. pots	.19	.17	
ABELIA GRANDIFLORA			
2 1/4-in. pots	.13	.12	
8x12 ins. TT, field-grown	.16	.17	
12x18 ins. TT, field-grown	.18	.17	
BERBERIS JULIANAE			
2 1/4-in. pots	.20	.18	
2 1/4-in. pots	.22	.20	
BERBERIS SARGENTI			
2 1/4-in. pots	.18	.16	
2 1/4-in. pots	.20	.18	
BUXUS JAPONICA			
Rooted cuttings	.08	.06	
2 1/4-in. pots	.13	.12	
2 1/4-in. pots	.15	.14	
BUXUS SEMPERVIRENS			
2 1/4-in. pots	.17	.16	
2 1/4-in. pots	.19	.18	
BUXUS SEMPERVIRENS CRONI			
*2 1/4-in. pots	.20	.18	
BUXUS SUFFrutICOSA			
2 1/4-in. pots	.18	.16	
2 1/4-in. pots	.20	.18	
CAMELLIA SASANQUA MAIDEN'S BLUSH			
3-in. peat pots	.20	.18	
COTONEASTER PARNEYI			
2 1/4-in. pots	.18	.17	
ELAEAGNUS FRUITLANDI			
2 1/4-in. pots	.16	.15	
2 1/4-in. pots	.18	.17	
EUONYMUS MICROPHYLLUS			
PULCHELLUS			
2 1/4-in. pots	.17	.15	
EUONYMUS RADICANS ERECTUS			
2 1/4-in. pots	.16	.15	
EUONYMUS PATENS, small-leaved			
2 1/4-in. pots	.14	.12	
GARDENIA FORTUNEI			
2 1/4-in. pots	.15	.14	
2 1/4-in. pots	.16	.15	
GARDENIA RADICANS			
2 1/4-in. pots	.15	.14	
ILEX CORNUTA FEMINA			
2 1/4-in. pots	.20		
ILEX CORNUTA, seedlings			
2 1/4-in. pots	.14	.12	
2 1/4-in. pots	.16	.14	
ILEX CORNUTA BURFORDI			
2 1/4-in. pots	.15	.14	
2 1/4-in. pots	.16	.15	
ILEX CRENATA CONVEXA BULLATA			
2 1/4-in. pots	.17	.16	
ILEX CRENATA HETZI			
2 1/4-in. pots	.15	.14	
2 1/4-in. pots	.16	.15	

(Continued in next column)

(Continued from previous column)

ILEX CRENATA REPANDENS			
2 1/4-in. pots	.15	.14	
ILEX CRENATA ROTUNDIFOLIA			
2 1/4-in. pots	.15	.14	
2 1/4-in. pots	.16	.15	
ILEX OPACA FEMINA			
2 1/4-in. pots	.22	.20	
2 1/4-in. pots	.25	.22	
ILEX OPACA EAST PALATKA			
2 1/4-in. pots	.16	.15	
2 1/4-in. pots	.18	.17	
CHERRY LAUREL			
6x8-in. seedlings	.08	.06	
2 1/4-in. pots	.12	.11	

LIGUSTRUM IONANDRUM

Introduced by U. S. Government from the Orient. Foliage leaves are as small as those of *Ilex crenata*. Will form a perfect specimen without shearing.

2 1/4-in. pots	.14	.12
LIGUSTRUM LUCIDUM COMPACTUM		
2 1/4-in. pots	.16	.15
2 1/4-in. pots	.17	.16

LIGUSTRUM SIN. PENDULUM  
(Weeping Amur River South Privet)

2 1/4-in. pots	.11	.10
NANDINA DOMESTICA		

2 1/4-in. seedlings	.06	.05
MANDRAKE		

2 1/4-in. pots	.11	.10
MAGNOLIA		

2 1/4-in. pots	.13	.12
MAGNOLIA		

3-in. pots	.18	.16
PHOTINIA SERRULATA		

2x3-in. seedlings	.02	.02
PHOTINIA		

2 1/4-in. pots	.18	.18
PODOCARPUS SINENSIS		

2 1/4-in. pots	.15	.14
PYRACANTHA BELLII		

2 1/4-in. pots	.19	.18
PYRACANTHA COCCINEA LALANDII		

2 1/4-in. pots	.17	.16
BERBERIS THUN. ATROPURPUREA		

2 1/4-in. pots	.11	.10
CORNUS FLORIDA		

6x8-in. seedlings	.05	.04
2 1/4-in. pots	.12	.10

LIQUIDAMBAR STYRACIFLUA		
(Sweet Gum)		

4x6-in. seedlings	.05	.03
6x8-in. seedlings	.06	.04

8x12-in. seedlings	.08	.06
12x15-in. seedlings	.10	.08

SPRAEIA ANTHONY WATERER		
2 1/4-in. pots	.10	.08

SPECIAL NOTICE: ITEMS MARKED BY (\*) ASTERISK WILL BE AVAILABLE FOR DELIVERY LATE SPRING OF 1959. ALL ITEMS NOT SO MARKED ARE READY FOR IMMEDIATE SHIPMENT OR LATER SHIPMENT TO SUIT CUSTOMERS' REQUIREMENTS.

T. G. OWEN & SON, INC.  
Columbus, Miss.

## EVERGREENS

Andorra Juniper, 6 to 8 ins., bare-root .05

Blue Hetz Juniper, 6 to 8 ins., bare-root .05

Burk Juniper (upright), 6 to 10 ins., bare-root .14

Pfitzer Juniper, 6 to 10 ins., 2-yr., bare-root .07

Pfitzer Juniper, plant bands .16

Von Ehren Juniper, 6 to 10 ins., bare-root .06

Spreading Jap. Yew (Taxus cuspidata), 3-yr., 8 to 10 ins., plant bands .08

DECIDUOUS, BARE-ROOT

Blue-leaved Arctic Willow, 10 to 12 ins., .06

Althaea Lucy, double red: 6 to 8 ins., .05

Forsythia Lynwood Gold, 6 to 12 ins., .05

Hypericum Hidecote, 6 to 8 ins., .06

Hypericum Kalmanianum, 6 to 8 ins., .06

Honeysuckle (vine), Heckrottii, giant flowering, everblooming .05

Privet, Chinese (Wayside Gardens strain) evergreen in zones 5, 8 to 12 .04

Privet, Lodenose, 8 to 12 ins., .05

BROADLEAFS

Euonymus patens Flagpole (small-leaved), 6 to 10 ins.: grows 2 ft. tall .04

Euonymus patens Newport (medium-leaved): 6 to 10 ins.: grows 3 to 4 ft. tall .04

Euonymus patens Rosehill (medium-leaved): 6 to 10 ins.: grows 3 to 4 ft. tall .04

Euonymus coloratus, 6 to 10 ins., .04

Purplish-leaved (Texas) Honey-suckle vine, 6 to 12 ins., .05

Variegated-leaved (Gold Nf.) Honey-suckle vine, 10 to 12 ins., 2-yr., .06

PERENNIALS

Teucrium chamaedrys, 4 to 6 ins., .04

Less than 300 total order, 2c more per plant. Less than 50 of any item, 4c more per plant.

McINNICH GREENHOUSES  
St. Joseph, Mo.

(Continued in next column)

## POTTED LINERS, 2 1/4-IN. ROSE POTS

10-25	100
10-25	200
10-25	200
10-25	200
10-25	200

10-25	200
10-25	200
10-25	200
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10-25	200
10-25	200
10-25	200
10-25	200

10-25	200




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## LINING-OUT STOCK—Continued

NAUGHER'S JUNIPER LINERS  
ANDORRA, ASHFORD, FASTIGIATA,  
GREEK, IRISH, SAVIN.  
100, 16c each; 1000, 12½c each.  
HETZI, PFITZER, PFITZER COMPACTA,  
SEVIN VON EHORN  
100, 17½c each; 1000, 16c each.  
Field-grown. Root-pruned.  
Freshly dug. Never stored.  
Fully hardy. FREE PACKING.  
Fully dormant. Liberally graded.  
1-yr., 6 to 12 ins.  
50 OR MORE AT 100 RATE.  
200 OR MORE AT 1000 RATE.  
Write for latest catalog.  
NAUGHER NURSERY  
Chase, Ala.

## LIRIOPE

LIRIOPE, HARDY NORTH  
Heavy divisions. Will grow in sun or full shade. 10 100  
Majestic (lilac), wide leaf, green... \$2.00 15  
Big Blue (lilac), wide leaf, green... 1.30 10  
Muscaria exiliflora, narrow leaf, green 1.25 8  
Munro's, white flowering, wide leaf, green... 3.50 25  
Silvery Sunproof, white and green leaf... 4.50 35  
Lilac Beauty, giant green leaves, tall lilac spikes... 6.50 50  
Silvery Midget, wide leaf, white and green... 5.50 40  
Grandiflora, 36 in., specimen plant... 6.50 50  
Gold Blended, wide leaf, semi-dwarf... 12.50 100  
Curly Twist, widest leaf, green, bushy... 2.00 15  
Japonica, dainty ground cover... 1.00 4  
Riegel's Wonder Evergreen ground cover... 1.00 4  
Christmas Tree, Monroe's No. 2, 12.50 100  
50 at 100 rate. Send for list.  
RIEGEL PLANT CO., EXPERIMENT, GA.

## MAGNOLIAS

ORIENTAL MAGNOLIAS.  
2-yr., C.T. liners, heavy roots, liberal grade.  
12 to 18 ins. 18 to 24 ins.  
Alba superba... \$0.35 \$0.40  
Lilliputian... .35 .40  
Nigra... .35 .40  
Russica rubra... .35 .40  
Soulangeana... .35 .40  
Stellata... .35 .40  
GRIMES NURSERIES, SEMMES, ALA.

Magnolia grandiflora, 4 to 8 ins., shipped in pots, 2½-in. or removed, \$15.00 per 100. 1-yr. seedlings for spring 1959, about 4 ins. high, \$50.00 per 1000. Cash and no charge for packing.

Harwell Nursery, Van Buren, Ark.

## MAPLES

JAPANESE RED MAPLE SEEDLINGS  
(ACER PALMATUM ATROPURPUREUM)  
Carefully selected, finest red Maple.  
Well-hardened from open field beds, liners and heavy potting grades in large quantities.  
Each  
Each 250 or per 100 more  
1-yr. (all red), 8 to 10 ins. \$0.22 \$0.20  
2-yr., X, light branched  
8 to 10 ins. .33 .39  
10 to 12 ins. .38 .35  
12 to 15 ins. .45 .42  
2-yr., X, heavy grade, branched transplants  
6 to 8 ins. \$0.43 \$0.40  
8 to 10 ins. .48 .45  
10 to 12 ins. .55 .50  
12 to 15 ins. .65 .60  
3-yr., XX, branched transplants, ready for 6-in. pots (salable)  
12 to 15 ins. \$0.80 \$0.75  
15 to 18 ins. .95 .90  
4 and 5-yr., well-branched, heavy grade  
10 to 12 ins. \$1.00 \$0.95  
12 to 15 ins. 1.25 1.18  
15 to 18 ins. 1.60 1.50  
18 to 21 ins. 2.00 1.90  
21 to 24 ins. 2.75 2.60  
Shipped dormant. Packed in sphagnum. Late fall or early spring.  
20 per cent deposit will reserve your order.

HUBBS NURSERIES  
Route 130 Riverton, N. J.  
Specializing in Japanese Maple seedlings.

## NORWAY MAPLE

10 to 50 50 to 100  
Each Each  
6 to 8 ft. \$2.75 \$2.50  
8 to 10 ft. 4.75 4.50  
Ask for prices on other sizes.  
WAYNESBORO NURSERIES  
Waynesboro, Va.

COLLECTED ACER  
RUBRUM AND SACCHARUM  
from whips to 4-in. caliper.  
CURTIS NURSERIES, INC.  
Callicoon, N. Y.

ACER PALMATUM SEEDLINGS  
See our offer on page 94, this issue.  
W. B. CLARKE & CO.  
P. O. Box 343 San Jose 1, Calif.

## RED JAPANESE MAPLE

Your inspection of the plants in foliage is cordially invited.

Per 100 Per 1000  
(EACH) (EACH)

*Acer palmatum atropurpureum, selected types, strong 2-yr. grafts, 1 to 18 ins.	\$1.50	\$1.25
*Acer palmatum atropurpureum BLOODGOOD, 2-yr. grafts, 12 to 18 ins.	1.75	...
*Acer palmatum atropurpureum OSSY BENI, 2-yr. grafts	1.50	...
ITEMS SUITABLE FOR MAIL ORDER TRADE AND CANNING.	2.00	...
C. HOOGENDOORN, NURSERYMAN 413 Turner Rd.	Newport, R. I.	...

## NORWAY MAPLE

Straight trunk. Fine heads. Very fibrous roots.

Per 100 Per 1000  
Atropurpurea, rich wine-red \$1.75 \$1.40  
Blue Emerald, a blue sport of

Emerald Pink	1.75	14.00
Blue Hills, showy sky-blue	1.75	14.00
Crimson Beauty, large flowers of brilliant red	1.75	14.00
Emerald Pink, a pure unbleached pink	1.75	14.00
Phlox Elsie, deep rose-pink	1.75	14.00

Pink Perfection, medium pink with deeper red eye

Vivid, bright vivid pink with a dark pink eye

White Delight, large pure white

Quantities of 250 or more of 1 color, 12c per plant. Rooted divisions for lining out are also available, at \$4.00 per 100. On account of the exceptionally low prices on these divisions, we cannot accept orders for less than 50 divisions of one variety. For your convenience, orders will be booked until March 10 without deposit. After that date our regular policy of CASH WITH ORDER, or 25 per cent deposit and balance C.O.D. will prevail. Payment in full before shipment is required from customers lacking satisfactory credit rating.

## ORCHIDS

ORCHIDS

Phalaenopsis grandiflora or Nun's Orchid. Evergreen terrestrial with attractive broad foliage. Desirable for house plant and corsage work. Flowers produced 8 to 15 per spike, 3 ins. across; petals tan above, silver beneath, purple lip. Pot into any peaty potting soil. Will bloom 30 to 40 days under glass. Flowering size with bloom spikes showing.

Standard bulb 1 bloom spike (for 8-in. pot), \$1.10 each, in 10 lot; \$1.00 each, in 100 lot.

Jumbo bulb 2 bloom spikes (for 7-in. pot), \$1.35 each, in 10 lot; \$1.25 each, in 100 lot.

Shipped via express, bare-root, F.O.B. Leesburg. Packing free.

FLORIDA NURSERY & LANDSCAPE CO.  
P.O. Drawer 281 Leesburg, Fla.

Phone ST 7-2315

## PACHYSANDRAS

PACHYSANDRA TERMINALIS

Per 100 Per 1000

1-yr. field-grown \$ 5.00 \$ 45.00  
(Lots of 5000, \$40.00 per 1000)

2-yr. field-grown 7.50 70.00

2½-in. pot-grown 11.00 100.00  
Free packing. Phone MOhawk 4-3923.

HANSEN BROS. NURSERIES, INC.  
1268 Montgomery Ave. Narberth, Pa.

Pachysandra, strong plants, grown in soil frames with light shade. First-class stock, \$6.00 per 100, \$50.00 per 1000; \$47.50 per 1000 for 5000 or more, including wood packing. Peeksill Nursery, Shrub Oak, N. Y.

PACHYSANDRAS

Strong rooted cuttings, \$4.25 per 100, \$40.00 per 1000.

DUNWOODIE NURSERIES  
6 Smart Ave. Yonkers, N. Y.

PACHYSANDRA TERMINALIS

1-yr. field-grown \$65.00 per 1000.

HILLCREST GREENHOUSES  
Miller Park Franklin, Pa.

## PEONIES

PEONIES

Healthy 3 to 5-eye divisions, \$3.50 per 10, \$30.00 per 100.

AURORA, white DAUBENTON, light pink

DUKE OF CLARENCE, rose

GRANDIFLORA NIVEA PLENA, white

AUGUSTE LEMONIER, bright red

ETTA, pink MME de VERNEVILLE, white

PEONY CROUSSE, red

VENUS, shell-pink

FESTIVA MAXIMA, white

EDULIS SUPERBA, pink

GENERAL BERTRAND, pink

COURONNE D'OR, white

QUEEN VICTORIA, white

THE MOOR, purple

CLARA BARTON, white

PINK PEONIES, not named, 25c each

WHITE PEONIES, not named, 30c each

RED PEONIES, not named, 30c each

PARKER'S PEONY FARM & NURSERY  
Fayetteville, N. Y.

PEONIES

Adolph Rousseau, Baroness Schroeder, Duchesse de Nemours, Festiva Maxima, Sarah Bernhardt, Lady Alex. Duff, Marie Lemoine, Mons. Jules Elle, Reine Hortense, 3-yr.-old whole clumps, not divided, 6 eyes and up, \$75.00 per 100, \$700.00 per 1000; divisions, 3 to 5 eyes, \$40.00 per 100, \$350.00 per 1000.

VERKADE'S NURSERIES, WAYNE, N. J.

Grown in open field rows.

Spring 1959 Each, 1000

1-yr. to 4 to 6 ins. \$0.15

2-yr. 6 to 8 ins. .30

3-yr. 8 to 12 ins. .45

ECKHART NURSERIES

Growers of Paeonia Species, varieties, hybrids

16 Toppa Blvd. Newport, R. I.

ANDROMEDA (Paeonia JAPONICA)

One of the most beautiful broad-leaved Evergreens.

Per 100 Per 1000

2 to 3-in., 1-yr., T. \$ 8.00 \$ 75.00

3 to 5-in., 1-yr., T. 14.00 120.00

6 to 8-in., 2-yr., T.T. 20.00 190.00

PLANE VIEW NURSERY

1355 W. Main Rd. Newport, R. I.

## GRAFTED TREE PEONIES

Red, white, pink, purple. 1-yr., \$10.00 per 10; 2-yr., \$15.00 per 10. A yellow Tree Peony for \$1.50 with every 10 others. Discount of 16 per cent on 50 or more. Early double red. Fern-leaved Peonies, \$22.50 per 10.

ATHA GARDENS, WEST LIBERTY 6, O.

## PHLOX

## PHLOX SUBULATA

(Creeping Phlox, also called Mountain Pinks or Thrift.)

Vigorous field-grown clumps, 5 to 8-in. spread. Available after March 15. Not to be confused with dried out plants shipped from cold storage, but to the contrary, in most instances plants lifted from our fields on a Monday will be on their way to destination on Tuesday.

Per 100 Per 1000

Atropurpurea, rich wine-red \$1.75 \$14.00

Blue Emerald, a blue sport of

Emerald Pink, a blue sport of

Blue Hills, showy sky-blue \$1.75 \$14.00

Crimson Beauty, large flowers of brilliant red

Emerald Pink, a pure unbleached pink

Phlox Elsie, deep rose-pink \$1.75 \$14.00

Pink Perfection, medium pink

with deeper red eye \$1.75 \$14.00

Vivid, bright vivid pink with a dark pink eye

White Delight, large pure white

Quantities of 250 or more of 1 color, 12c per plant. Rooted divisions for lining out are also available, at \$4.00 per 100. On account of the exceptionally low prices on these divisions, we cannot accept orders for less than 50 divisions of one variety. For your convenience, orders will be booked until March 10 without deposit. After that date our regular policy of CASH WITH ORDER, or 25 per cent deposit and balance C.O.D. will prevail. Payment in full before shipment is required from customers lacking satisfactory credit rating.

## WALTERS GARDENS

Zeeland, Mich.

## PHLOX SUBULATA (CREEPING PHLOX)

Exceptional crop, large clumps.

Per 100

Alexander Pink, finest of pinks \$12.00

Rosea, rose-pink, good grower 12.00

Emerald Pink, shrub-like foliage 12.00

Amoena, tall variety of pink 12.00

May Snow, new fine white 12.00

White Delight, finest of whites 12.00

Blue Hills, light blue 12.00

Emerald Blue, shrub-like foliage in blue 12.00

Bridgeman's lavender; very good grower 12.00

Butterfly, lilac-bush, showy purple eye 12.00

Crimson Beauty, brilliant cyclamen-red 12.00

Red Wing, large glowing red flowers 12.00

Sensation, pretty bright pink with red eye 12.00

Transplants, \$9.50 per 100, \$90.00 per 1000.

Liners, \$5.00 per 100, \$45.00 per 1000.

250 or more of one variety at 1000 rate.

Delivered prices; we pay transportation.

Careful packing and each variety labeled.

Terms: Cash with order.

## TANGLEWOOD FARM

P.O. Box 336-N Phone 1660 Clinton, S. C.

## More customers for you!

Over 9,500 subscribers, all active buyers, see your ad in the American Nurseryman.

## PIERIS

## PIERIS JAPONICA

Grown in open field rows.

Spring 1959 Each, 1000

1-yr. to 6 ins. \$0.15

2-yr. 6 ins. .30

3-yr. 8 ins. .45

ECKHART NURSERIES

Growers of Pieris Species, varieties, hybrids

16 Toppa Blvd. Newport, R. I.

## ANDROMEDA

(PIERIS JAPONICA)

One of the most beautiful broad-leaved Evergreens.

Per 100 Per 1000

2 to 3-in., 1-yr., T. \$ 8.00 \$ 75.00

3 to 5-in., 1-yr., T. 14.00 120.00

6 to 8-in., 2-yr., T.T. 20.00 190.00

PLANE VIEW NURSERY

1355 W. Main Rd. Newport, R. I.

PIERIS JAPONICA (ANDROMEDA)  
Per 100 Per 1000  
1-yr. TT, 8 to 12 ins. .... \$40.00 \$350.00  
4-yr. TT, 6 to 8 ins. .... 30.00 250.00  
PETER BROUWER'S NURSERIES  
24 Lester St. New London, Conn.

## PRIVET

Thousands of Amur River North Privet  
Per 100 Per 1000  
18 to 24 ins. .... \$2.00 \$25.00  
2 to 3 ft. .... 1.00 30.00  
3 to 4 ft. .... 5.00 40.00  
Immediate shipment. Satisfaction guaranteed. Robinson Nursery Co., Greenville, Ga.

True Amur River Privet, any size up to 4 ft. \$20.00 per 1000. Mountville Nurseries, Mountville, Ga.

## PYRACANTHAS

PYRACANTHAS  
2-yr. plants from cuttings, twice transplanted. Each  
bare-root B&B  
500 Kasan, 9 to 12 ins. .... \$0.55 \$1.00  
100 Kasan, 12 to 15 ins. .... .65 1.10  
550 Lalandi, 9 to 12 ins. .... .50 .90  
500 Lalandi, 12 to 15 ins. .... .60 1.00  
Packing at cost.

THE CAPE COD NURSERIES  
H. V. LAWRENCE, INC.  
Falmouth, Mass.

PYRACANTHA COCCINEA LALANDI  
These fine liners are just right for cans or the field!  
6 to 8 ins., potted .... \$15.00  
8 to 12 ins., potted .... 17.50  
12 to 18 ins., bare-root .... 15.00  
These are all nice plants. Send us your trial order. GUARANTEED SATISFACTION!  
COTTAGE HILL NURSERY  
6000 Japonica Lane Mobile, Ala.

## RHODODENDRONS

RHODODENDRONS  
Superior quality, B&B Rhododendron clumps, collected from the cool slopes of the Carolina mountains. Nice root systems. Shipped F.O.B. from near Asheville, N. C., up to May 1. Order now and see this beauty yourself.

Each, 10 Each, 100  
R. maximum, 12 to 18-in. specimens .... \$1.50 \$1.25  
R. maximum, 2 to 3 ft. .... 2.00 1.75  
(6 to 12 shoots) .... 2.00 1.75  
R. maximum, 3 to 4 ft. .... 3.00 2.75  
(6 to 12 shoots) .... 3.00 2.75  
R. carolinianum, 1 to 2 ft. .... 3.50 3.00  
R. catawbiense, add 30c each to above prices. No to 4-ft. sizes.  
Prices subject to change without notice.

Minimum order of \$15.00.  
Cash or check with order, please.

Julian B. Culver.

MORRISTOWN SCENIC NURSERY  
Morristown, Tenn.

OWN-ROOT HYBRID RHODODENDRONS  
America, Dr. Dresselhuys, catawbi, grand, 6 to 9 ins. 9 to 12 ins. 12 to 15 ins. \$1.25 \$1.75 \$2.25  
Priced each. Minimum order 10 plants. Shipped express collect.  
Grafted hybrids, all sizes, budded. Best reds. Nursery inspection. Pickup only.  
WINDY HILL NURSERIES  
Wood St. Mercury 5-2744 Saltzburg, Pa.

FIFTY THOUSAND  
OWN-ROOT

RHODODENDRONS  
A wide range of hardy varieties in 1, 2 and 3-yr. plants. Come and see for yourself to compare quality and prices, or just come and talk Rhododendrons, if you prefer.

WELLS NURSERY  
P. O. Box 141 Red Bank, N. J.  
Phone SHAdyside 1-0180

RHODODENDRONS, ROOTED CUTTINGS  
Nurseryman's list of hardy hybrids.  
Exotic semi-hardy list for fanciers.  
Rare Asiatic species seedlings.  
Free lists available now.

TUMBLE BROOK  
RHODODENDRON NURSERY  
17 Simsbury Rd. West Hartford, Conn.

RHODODENDRONS  
HYBRID RHODODENDRONS  
Landscape sizes  
Different colors.

PARMENTIER'S ROSES  
Grady St. Bayport, L. I., N. Y.  
Phone Bayport 8-0811

RHODODENDRON MAXIMUM  
Nursery-grown and collected. 2 to 7 ft. high. Well-shaped and symmetrical plants.

CURTIS NURSERIES, INC.

Callicore, N. Y.

100,000 hybrid Rhododendrons, landscape and liners. Also Evergreens and shrubs.

Kordus Nursery, Deer Park Ave., R. D. 4, Huntington, N. Y.

## ROSEBUSHES

## MINIATURE ROSES

Abundant, continuous flowering, cute little 10-in. bushes are winter hardy like hybrid Teas which they resemble. Starred (\*) varieties best for forcing. Immediate or later delivery of 2 1/2-in. own-root pot plants. Write for FREE nursery stock wholesale price list.

	Per 100	Per 1000
Red (Spring Hill's choice) ....	\$4.00	\$35.00
Juliette, large crimson ....	4.50	40.00
Little Buckaroo (pat. 1726), red ....	5.50	50.00
Oakington Ruby, red ....	4.50	40.00
Perla de Alcanada, red ....	4.50	40.00
Prince Charming, red ....	6.00	55.00
Tom Thumb, red ....	5.00	45.00
Pink (Spring Hill's choice) ....	4.00	35.00
Dian, new deep rose ....	6.00	55.00
Patty Lou (patent 1135), pink ....	5.00	45.00
Pompon de Paris, pink ....	4.50	40.00
Yellow (Spring Hill's choice) ....	4.00	35.00
Bit o' Sunshine, bright yellow. ....	10.00	90.00
Jackie, cream and gold ....	4.50	40.00
Presumida, orange, gold and salmon ....	4.50	40.00
White (Spring Hill's choice) ....	4.00	35.00
Cinderella (pat. 1051), white ....	5.50	50.00
Pink Dot, new, white ....	5.00	50.00
White Fairy, superb ....	5.00	45.00
Climbing Pink Cameo, pink ....	8.50	80.00

SPRING HILL NURSERIES CO. Tipp City, O.

ROSEBUSHES  
Big, thrifty plants, guaranteed to please your most critical customers.

Priced to meet competition.  
Shipped when you need them.  
Standard and patent.

Bare-root and prepackaged.  
A wide assortment to choose from.  
Write, phone or wire for price list, or better still, come see for yourself.

MARTIN'S ROSE NURSERY  
P. O. Box 155 Arp, Tex.

Phone UL 9-2191

ROSES ROSES ROSES  
Dissatisfied with your Rose source?

Losing customers?  
Ready to throw in the towel?

Cheer up and smile.

It'll be worth your while to write for our list today.

No order too large or too small.

We personally take care of them all.

NEW LONDON ROSES  
"The Rose Nursery"  
P. O. Box 876 Overton, Tex.

ROSES ROSES ROSES  
The BEST of the old, the NEWEST of the new.

A. A. R. S. WINNERS! STARFIRE and IVORY FASHION. Naturally matured, carefully harvested and generously graded. Catalogs now available. Buy the best. "BUY KLYN'S."

GERARD K. KLYN, INC., MENTOR, O.  
Wholesale Rose Growers and Nurserymen in THE HEART OF FAMOUS LAKE CO.

ROSES  
CUSTOM PACKAGED OR BARE-ROOT

Good selection of patented and non-patented varieties to suit your smallest or largest needs. A dependable source for quality stock since 1923. We invite your inquiries.

Phone LY 4-4432.

VERMAY NURSERY CO.  
Dallas Highway Dept. A Tyler, Tex.

BUSH ROSES

Packaged for store and garden mart trade, also in bulk. Choice patented and non-patented varieties. Also packaged shrubs, fruit trees, flowering trees and shade trees.

Ask for complete list.

WAYNESBORO NURSERIES  
Waynesboro, Va.

ROSEBUSHES  
See our ad in February 15 issue for prices and varieties.

LINDALE NURSERY  
Box 141 Phone 18F2W Lindale, Tex.

POTTED ROSES  
See our ad on page 56.

DANEGERGER'S HI-WAY NURSERY, INC.  
P. O. Box 336 Milford, Del.

Roses, finest quality plants, reasonable. 112 varieties, standard and patented. Write.

Tate Nursery, R. 3, Tyler, Tex.

Surplus Stock  
can be easily and quickly turned into  
Cash

by listing it in the  
American Nurseryman Classified Ads

ROSE STOCK

MULTIFLORA ROSE  
Special, selected, thorny multiflora for budding. Tops are cut back to approximately

14 ins.

Caliper

6 to 8 mm. .... \$35.00

4 to 6 mm. .... 27.50

2 to 3 mm. .... 12.50

DANEGERGER'S HI-WAY NURSERY, INC.  
Box 336 Milford, Del.

## MULITFLORA ROSE

Top quality plants for living fences and conservation plantings.

Root-crown Approximate

caliper height

2 to 3 mm. 8 to 15 ins. \$12.50

3 to 5 mm. 12 to 18 ins. 17.50

3 to 8 mm. 12 to 24 ins. 22.50

5 to 12 mm. 18 to 36 ins. 38.50

UNDERSTOCK. Straight shank seedlings grown especially for understock. Nematode free. Expertly graded to suit the most particular.

4 to 6 mm. .... \$27.50 per 1000

2 to 4 mm. .... 17.50 per 1000

The above prices are F.O.B. Griggsville, Ill. nursery. All tops cut back to 10 ins. at shipping unless otherwise requested. Our storage facilities are the best. ORDER NOW for delivery this winter or spring. 10 per cent discount in lots of 10,000 or over; special quotations on larger quantities. For less than 1000 add 30 per cent. Packing at cost.

FARM LANDSCAPE CO. Urbana, Ill.

Route 3

## SEEDS

## GINKGO BILOBA

Cleaned seed, \$1.00 per lb.

JORDAN NURSERIES P. O. Box 269 Warner Robins, Ga.

## NANDINA SEED

\$1.00 per lb. Add 25¢ for postage.

PINKSTON'S NURSERIES Parrott, Ga.

## SHRUBS AND TREES

## EVERGREENS, WHOLESALE

A wide selection of Evergreen seedlings and transplants, also hardywoods, shade trees, ornamentals, shrubs and flowering trees. Our selected seed with good heredity and scientific culture assures healthy trees with healthy roots for rapid growth.

Moser offers quality trees at a price made possible through large quantity production.

Our cold storage permits late shipments. No charge for packing and boxing. Ask for catalog and wholesale planting lists.

Our ad, which appears on page 26 of this issue, shows a partial list of seedlings and transplants.

## MUSSEY FORESTS

Box 16-DC Indiana, Pa.

## ROOTED CUTTINGS, OPEN FRAME

Each, 100

Blue Arctic Willow .... \$0.06

Chinese Privet (hardy) .... .04

Regal Privet (true) .... .05

River North Privet .... .04

Purpleleaf Purpleleaf .... .05

Euonymus, paten and erectus .... .05

Euonymus, Sarcoxie .... .07

Euonymus, carrierei .... .05

Euonymus, vegetus .... .06

Euonymus, alatus compactus .... .08

Foraythia, Lynwood Gold .... .06

Euonymus, Sarcoxie, in Areo-Pots .... .17

Mahonia aquifolium, 1-yr. trans. seedlings .... 15

WHITEMAN'S GARDENS

R. R. 1 Plymouth, Ind.

ORNAMENTAL TREES

Crab Apples, 40 varieties; 1-yr. trees and limited number 3-yr. transplants. Descriptive booklet available.

Thunder Cloud purple-leaved Plum, 1-yr. and 3-yr., 6 to 8 ft.

Winter King Hawthorn, fruits ornamental all winter. 1-yr. whips.

American Holly, hardy named varieties, in sizes to 6 ft.

Taxus, Ilex rotundifolia, Ilex verticillata, large plants of Magnolia soulangeana and Cornus kousa chinensis seedlings.

SIMPSON ORCHARD CO., INC.

1504 Wheatland Rd. Vincennes, Ind.

Phone 489-3

SURPLUS STOCK 100

2000 Taxus, 2 1/4-in. .... \$15.00

3000 Juniperus hirta .... 15.00

3000 Pfitzer Juniper .... 15.00

1000 Andorra Juniper .... 15.00

2-yr. Azalea mollis .... 12.00

CHARLES J. SANDERS

Monongahela-Bentleyville Rd.

Monongahela, Pa.

## HONEY LOCUST, THORNLESS

10 to 50 50 and up

Each Each

8 to 10 ft. .... \$3.25 \$3.00

10 to 12 ft. .... 4.50 4.00

2 to 2 1/2-in. cal. .... 5.50 5.00

2 1/2 to 3-in. cal. .... 6.75 ...

WAYNESBORO NURSERIES

Waynesboro, Va.

## SHRUBS AND TREES

Lining-out stock, container stock, field-grown stock, in wide varieties and large assortments.

Write for descriptive list.

OVERLOOK NURSERIES, INC.

4125 Overlook Road Mobile, Ala.

Quercus rubra (Red Oak), root-pruned, field specimens, 2 to 8-in. caliper.

H. H. Rogers Nursery, Cooperstown, N. Y.



	TAXUS	Each, 100	1000
1000	Capitata, cuspidata, hicksi,		
\$ 40.00	10 to 15 ins. 5-yr. TT	\$0.90	\$6.80
60.00	Cuspidata, 4-yr. TT	.75	.65
60.00	Pfitzer, 2-yr. bare-root	.30	.25
60.00	12 to 15 ins. 4-yr. TT	.75	.65
75.00	Hetzii, 12 to 15 ins. 4-yr. TT	.75	.65
75.00	Fastigiatata, 15 to 18 ins. 4-yr. TT	.75	.65
40.00	Pyramidal, 15 to 18 ins. 4-yr. TT	.75	.65
40.00	SCOTCH PINE		
40.00	2 to 3 ft., T, bare-root	1.10	1.00
150.00	B&B	1.60	1.45

## SYCAMORE

## 3 to 4 ft. T

.60

## 4 to 5 ft. T

.75

## 5 to 6 ft. T

.90

## SILVER MAPLE

## 6 to 12 ins. s.

\$10.00 per 1000

## 12 to 24 ins. s.

20.00 per 1000

## 2 to 3 ft. s.

\$10.00 per 100

## 3 to 4 ft. s.

15.00 per 100

## 4 to 5 ft. s.

20.00 per 100

2 per cent discount, cash with order.

Write for complete price list.

RICHARDSON NURSERIES, INC.

53947 Fir Rd., R. 1 Granger, Ind.

## STOCK LIST, READY FOR SPRING

200.00	655 Norway Maple, 1 1/2 to 2 1/2-in. cal.
125.00	435 Schwedler Maple, 1 1/2 to 2 1/2-in. cal.
125.00	440 Sugar Maple, 1 to 1 1/2-in. cal.
175.00	2500 Silver Maple, 1 to 3-in. cal.
175.00	730 American Elm, 1 to 2 1/2-in. cal.
75.00	815 Chinese Elm, 1 1/2 to 5-in. cal.
75.00	96 American Birch, 1 1/2 to 2 1/2-in. cal.
125.00	55 American Birch, clump
125.00	144 European Birch, 1 1/2 to 3 1/2-in. cal.
70.00	Low branched
1300	410 Honey Locust, 1 to 1 1/2-in. cal.
1300	1300 American Sycamore, 1 to 2-in. cal.
70.00	169 Tulip Tree, 1 to 3 1/2-in. cal.
12.00	8000 Flowering Crab Apple, 2 to 6 ft., 3-yr.
12.00	1500 Redbud, bush form, 2 to 5 ft.
12.00	Write for prices. Also flowering shrubs.
12.00	Evergreens, Junipers, in 1 to 6 ft. Arborvitae, Liners to large sizes.

## NAGLE'S NURSERY

84th Ave., R. 2, Box 267 Decatur, Mich.

## SORBUS AUCUPARIA

100 rate

36 3 to 4 ft. .75

260 4 to 5 ft. 1.00

495 5 to 6 ft. 1.25

345 6 to 8 ft. 1.75

78 1 to 1 1/2-in. 2.50

## SILVER MAPLE

66 4 to 5 ft. .60

106 5 to 6 ft. .75

399 6 to 8 ft. 1.00

448 8 to 10 ft. (1 to 1 1/2-in.) 1.75

## EUPHONYMUS ALATUS

730 12 to 15 ins. .20

840 15 to 18 ins. .40

555 18 to 24 ins. .60

## EUPHONYMUS ALATUS COMPACTUS

265 12 to 15 ins. .25

790 15 to 18 ins. .50

## PONTIAC NURSERY CO.

Romeo, Mich.

## SHRUBS

Just a few of the better shrubs included in our latest list are offered below. All have had the benefit of an exceptionally good growing season and are in prime condition for canning or resale.

Per 100

Cornus elegantissima .40

Daphne cneorum .40

Forsythia Lynwood Gold, 2-yr. 45.00

Forsythia Beatrix Farrand, 15 to 18 ins. 25.00

Hydrangea Nikko Blue, 2-yr. 45.00

Hydrangea 3-yr. 65.00

Hypericum 'Hidcote' 22.50

Weigela 'Java' Red 40.00

Vicary Privet, 10 to 12 ins. 25.00

Write for our complete list.

THE JOSEPH F. MARTIN CO., INC.

Box 189 Painesville, O.

Heavy, finished landscape material for the discriminating clients.

Flowering Crab Apples: Almey and Hops,

1 1/2 to 1 1/2-in. cal. \$4.75; 1 1/2 to 2-in. cal.

\$6.00. Floribunda, 4 to 5 ft. \$4.00; 5 to 6 ft. \$5.25. Dolgo, 5 to 6 ft. \$4.50; 6 to 7 ft. \$5.75. Atratosanguinea (5 ft. standards), 3 ft. heads. \$11.50.

White Redbud, 2 to 3 ft. B&amp;B. \$7.00.

Purple-leaved Plum (Thunder Cloud), 1 to 1 1/2-in. cal. \$4.00; 1 1/2 to 1 1/2-in. cal. \$5.00.

Cotoneaster divaricata, 3 1/2 ft. high by 4 to 5 ft. broad (heavy). B&amp;B. \$6.50.

Sunburst Locust, 1 1/2 to 2-in. cal. \$16.00.

2 to 2 1/2-in. cal. \$21.00.

Pickup at nursery or delivery arranged.

Bristol's Nursery, 6909 Garden Rd., Maumee, O. (5 miles from Toledo).

## ROOTED CUTTINGS FROM SAND

All cuttings 6 to 8 ins.

Ilex crenata, Ilex convexa bullata, Taxus

intermedia, hicksi, thayerei, kelseyi, hick-

fieldi, cuspidata. \$9.00 per 100. Also 2000

hybrid Rhododendrons, 2000 Pieris japonica.

grown 24 to flat, in soil; English Ivy and

Pachysandra, in flats and pots.

## BRAND'S NURSERY

912 Park Ave., Huntington, L. I., N. Y.

Phone HAmilton 2-4266

HEAVY ROOTED CUTTINGS OUT OF SAND			
June 1	Per 100	Per 1000	
10,000 Taxus hicksii, 4 to 6 ins.	\$11.00	\$100.00	
10,000 Taxus brownii, 4 to 6 ins.	11.00	100.00	
5,000 Taxus hunnewelliana, 4 to 6 ins.	11.00	100.00	
10,000 Taxus, small amts. of each.			
10,000 Taxus, var. thayerei, thayerei; 4 to 6 ins.	11.00	100.00	
8,000 Ilex hetzii, 4 to 6 ins.	11.00	100.00	
5,000 Ilex rotundifolia, 4 to 6 ins.	11.00	100.00	
4,000 Ilex convexa, 3 to 5 ins.	10.00	90.00	

HOLLY NURSERY

Vrooman Rd., Painesville, O.

## LOMBARDY POPLAR

## 2-yr. heavy branched.

4 to 2 ft. 40c each

5 to 6 ft. 50c each

6 to 8 ft. 60c each

1-yr. some branched. 4c each

2 to 3 ft. 8c each

3 to 4 ft. 12c each

4 to 6 ft. 16c each

6 to 7 ft. 25c each

## Packing at cost.

## PAUL'S NURSERY

R. F. D. 3 Shelby, O.

## AMERICAN ARBORVITAE

## HEMLOCKS

## CLUMPED BIRCH (papyrifera)

To clean out area, will sacrifice over 4000

plants.

Arborvitae, 28 ins. to 4 ft. \$1.00; 4 to 7 ft.

\$1.60. All sheared.

Hemlocks, XX, 20 to 36 ins. \$1.25.

Clump Birch, 7 to 12 ft. \$2.00.

You dig. We are located 16 miles north of

Bedford interchange on the Pa. turnpike.

HEMLOCK HILL NURSERY, New Paris, Pa.

Phone Fishertown 17-R-41

## B&amp;B STOCK FOR SPRING SALES

White Spruce, sheared: 2 1/2 to 3 ft. \$2.65

White Spruce, sheared: 3 to 4 ft. 3.25

Norway Spruce, sheared: 4 to 5 ft. 3.75

Douglas Fir, sheared: 4 to 5 ft. 4.50

White Pine, sheared: 4 to 5 ft. 4.50

Collected:

Sweet Gum, 1 1/2 to 2 1/2-in. cal. 3.50

White Birch, 1 1/2 to 2 1/2-in. cal. 3.50

Pin Oak, 1 1/2 to 2 1/2-in. cal. 5.00

W. V. GRIFFIN

8 Elizabeth Ave. (Herbert's Corner) Milltown, N. J.

Phone CL 7-2484

## SURPLUS STOCK

1000 Rhododendron America, very heavy fall

liners, 9 to 12 ins. tall, well-branched.

\$1.00.

600 Rhododendron America, lighter grade,

80c.

2000 Berberis atropurpurea nana, 6 to 9 ins.

bare-root. \$50.00 per 100.

2000 Berberis atropurpurea nana, 2-yr., bare-

root. \$25.00 per 100.

## ASK FOR OUR NEW LINER LIST.

## WEST OREGON NURSERY

3550 N.W. Saltzman Rd., Portland 10, Ore.

## PIN OAK

2 to 3 ft. \$0.50 each

3 to 4 ft. .75 each

4 to 5 ft. 1.00 each

5 to 6 ft. 1.50 each

CORNUS SIBIRICA (Red twig Dogwood)

Full, heavy plants.

3 to 4 ft. .60 each

4 to 5 ft. .75 each

Packing at cost.

## PAUL'S NURSERY

R. F. D. 3 Shelby, O.

## CHINESE ELM, SPRING DUG

Transplants, bare-root.

5 to 6 ft. 1 1/2 to 4-in. .50

6 to 8 ft. 2 1/2 to 4-in. .75

8 to 9 ft. 1 to 1 1/2-in. 1.00

9 to 10 ft. 1 1/2 to 1 1/2-in. 1.25

10 to 12 ft. 1 1/2 to 2-in. 2.00

2 to 3 ft. seedlings, per 100 5.00

3 to 4 ft. seedlings, per 100 7.00

4 to 5 ft. seedlings, per 100 10.00

WEITZEL'S NURSERY

2900 West 9th St., North Platte, Neb.

## PIN OAK (LARGE SPECIMENS)

Nursery-grown, drum-laced ball, loaded on

your truck.

3 1/2 to 4-in. caliper \$5.72

4 to 4 1/2-in. caliper .80.00

4 1/2 to 5-in. caliper 110.00

Also a few Red Oak and Sweet Gum, same

prices.

## GEORGE F. BLOOMER NURSERIES

Route 69 Flemington 155-J

## SHADE TREES AND EVERGREENS

Available for immediate delivery.

100 Acer platanoides, 2 1/2 to 3-in. caliper

500 Taxus cuspidata, 3 to 4-ft. spread

5000 Austrian Pines, 4 to 20 ft.

5000 Red Oak, 2 to 8-in. caliper

SEND US YOUR WANT LIST.

Write for prices, or call

## THE BUDDIES NURSERY

P. O. Box 14 Birdsboro, Pa.

Phone JUNiper 2-7257

## BIRCH, CUTLEAF WEEPING

10 to 50 50 to 100

Each Each

10 to 12 ft. \$4.25 \$3.75

WAYNESBORO NURSERIES

Waynesboro, Va.

## SHRUBS AND TREES

Golden Syringa, 15 to 18 ins. 75c

Forsythia spectabilis, 3 to 4 ft. 50c

Euonymus alatus, 2 to 3 ft. 85c

Barberry, green: 16 to 18 ins. 22 1/2c

Barberry, green: 18 to 24 ins. 27 1/2c

French Lilac, 2 to 3 ft. 85c

(for B&amp;B, add 50c each)

Silver Maple, 6 to 8 ft. \$1.50.

THE FRENCH NURSERY CO.

Race St. Clyde, O.

## NURSERY STOCK

TAXUS, RHODODENDRONS, JAPANESE

MAPLE, AZALEAS, HOLLYS, MAGNO-

LIAS, DOGWOODS and other choice foun-

dation planting stock in both finished and

lining-out grades. Catalog upon request.

Buy the best. BUY KLYN'S.

GERARD K. KLYN, INC., MENTOR, O.

Wholesale Rose Growers and Nurseries

IN THE HEART OF FAMOUS LAKE CO.

## PINUS STROBUS (WHITE PINE)

Nursery-grown transplants. Each, 10 100

2 to 3 ft. L. &amp; B. \$1.25

3 to 4 ft. L. &amp; B. 2.25 2.00

4 to 5 ft. L. &amp; B. 3.00 2.75

5 to 6 ft. L. &amp; B. 4.25 4.00

Large specimens quoted by request.

J. A. WEDDINGTON &amp; SON

4414 Holston Dr., Knoxville 14, Tenn.

Phone 3-4417

## SYCAMORE

(American Plane Tree)

2 to 4 1/2 ins.

Also a few Pin Oaks,

3 to 4 1/2 ins.

Hawthorns, all sizes.

Delivered in Chicago area.

## COX TREE SERVICE

## SHRUBS and TREES—Continued

Crape Myrtle, thousands of pink, sparkle brilliant red. Nursery-grown, full, well-developed bushes, good roots. 18 to 24 ins. \$25.00 per 100. 2 to 3 ft. \$35.00 per 100. 3 to 4 ft. \$50.00 per 100. Attractive price on 1000 or more lots. Satisfaction guaranteed.

Robinson Nursery Co., Greenville, Ga.

## LANDSCAPE ARCHITECTS!

We have made a specialty of growing large landscape material for the past 30 years. We cordially invite you to inspect our stock.

GEORGE F. BLOOMER NURSERIES  
Route 69  
Flemington, N. J.

Phone Flemington 15-J.

## SHADE AND FLOWERING TREES

See our display ad. March 1 issue. Ask for special prices on truckload lots.

## WAYNESBORO NURSERIES

Waynesboro, Va.

Mugho Pine, B&B, 15 to 18 ins. \$3.75. Mugho Pine, B&B, 18 to 24 ins. 4.75. Mountain Ash (European), 5 to 6 ft. 1.25. Mountain Ash (European), 6 to 8 ft. 1.75.

The Pequot Nurseries, Brainerd, Minn.

## SHRUBS AND TREES

See our Classified ad in this issue under LINING-OUT STOCK.

T. G. OWEN & SON, INC.  
Columbus, Miss.

## CRYPTOMERIA JAPONICA

1-yr. seedlings \$5.00 per 100, \$45.00 per 1000. Delivery after middle of May.

## BOULEVARD NURSERIES

Newport, R. I.

Collected Mtn. Laurel, 6 to 10 ins., 100, \$15.00. Collected Sugar Maple, 3 to 4 ft., 100, \$15.00.

Maplewood Nurseries, Franklin, N. H.

## STRAWBERRIES

## WHOLESALE BULK

## STRAWBERRY PLANTS

F.O.B. Bristol, Ind.

If you have your own cold storage facilities, our bulk price list will interest you. For large quantity quotation, please write.

JUNE BEARING Per 1000

## EARLY VARIETIES

Blakemore \$9.50. Premier 12.00. Premier 12.00. Red Glow 14.00.

## EARLY MIDSEASON

Dunlap 9.50. Bellmar 10.00. Fairfax 12.00. Fairland 12.00. Pocahontas 12.00. Wisconsin 214 14.00.

## MIDSEASON

Robinson 10.00. Catskill 12.00. Empire 12.00. Armore 12.00. Sparkle 12.00. Tennessee Beauty 12.00. Vermilion 12.00. Sure Crop 14.00. Paymaster 14.00. Jumbo 20.00.

## LATE

British Sovereign 12.00. Plentiful 14.00.

## EVERBEARING

Gem 20.00. Superfection 20.00. Streamliner 22.00. Twentieth Century 28.00.

Red Rich (plant pat. No. 993) 78.00.

Established retail prices on Red Rich: 12 plants, \$2.95; 25 plants, \$5.00; 50 plants, \$8.50; 100 plants, \$15.00; 250 plants, \$32.50; 500 plants, \$62.50; 1000 plants, \$120.00.

\*Grown from virus-free planting stock.

JUDSON NURSERIES, INC.

Phone 1-2945 Bristol, Ind.

Strawberries, certified. Hardy, Ozark-grown, well-rooted plants. Blakemore, Dunlap, Robinson, Tenn. Beauty, Florida No. 90, \$7.00 per 1000. Armore, Aroma, Fairfax, Catskill, \$8.00 per 1000. Pocahontas, Dixieland, \$9.00 per 1000. Everbearing: Superfection, Gem, Streamliner, \$12.50 per 1000. All plants in bundles of 25, fresh dug, well-packed, prompt shipment.

Haines Strawberry Nursery, Goodman, Mo.

## STRAWBERRY PLANTS

Double Inspected. Per 1000

Dunlap \$8.00. Blakemore 8.00. Robinson 9.00. Premier 10.00.

Armore 10.00. Everbearing Superfection or Gem 16.00.

Ogallala, new everbearing 40.00.

DOLLAR NURSERY, BLOOMFIELD, IA.

PELLETT'S STRAWBERRY PLANTS

IOWA-GROWN, VERY PROMPT SERVICE

Senator Dunlap \$8.00 per 1000 per crate of 2500, \$18.75.

Robinson 8.00 per 1000.

Superfection, everbearing 17.00 per 1000.

Gem, everbearing 15.00 per 1000.

PELLETT GARDENS, ATLANTIC, IA.

## TAXUS

## TAXUS CAPITATA

The seed was imported from Japan. The plants are strong selected 4-yr. transplants. Two years ago when the stock was transplanted, only selected plants were picked to grow on.

Per 100 Per 1000

(EACH) (EACH)

4-yr., T. 10 to 15 ins., heavy \$0.45 \$0.40

C. HOOGENDOORN, NURSERYMAN

413 Turner Rd. Newport, R. I.

ROOTED CUTTINGS, READY MAY 1

Taxus hatfieldi No. 7

Taxus hicksii

Taxus intermedia

Taxus Klein 66.

\$8.00 per 1000.

THEO. KLEIN NURSERY

Crestwood, Ky.

## TRITOMAS

## TRITOMA PFITZERI (RED-HOT POKER)

No seedlings. True all fall blooming. The examination point of the golden.

100 strong plants, \$15.00; 250 strong plants, \$30.00; 1000 strong plants, \$100.00. Larger quantities, ask for price.

JOHN M. ELZINGA

P. O. Box 142 Benton Harbor, Mich.

## VEGETABLE PLANTS

## WHOLESALE PRICE LIST 1959

Plant variety Date ready Per 1000

Cabbage Now \$2.00

Onion Now 1.50

Lettuce Now 4.00

Broccoli Now 4.00

Cauliflower Now 4.00

Pepper April 15 4.50

Eggplant April 15 4.50

Tomato April 15 4.00

Hybrid Tomato April 15 5.00

All above prices F.O.B. Albany.

Quantity prices on 100,000 lots upon request.

Leading varieties, large, fresh plants.

Prompt shipment. Write for catalog.

Write on wire.

PIEMONT PLANT CO.

Dept. 905 Albany, Ga.

Classified Ads Offer Maximum Results at Minimum Cost.

## VIBURNUMS

## VIBURNUM CARLESI Per 10 Per 100

15 to 18 ins., not balled \$15.00 \$125.00

18 to 24 ins., not balled 20.00 175.00

2 to 2½ ft., not balled 25.00

2½ to 3 ft., B&B 42.50

3 to 4 ft., B&B 50.00

WAYNESBORO NURSERIES

Waynesboro, Va.

## SUPPLIES

## BURLAP

HOLLAND BURLAP squares, for all needs.

VIKING CLOTH, a film imbedded Burlap, in squares, used instead of tarpots, and in

50-yard rolls, 5 ft. wide, \$38.00.

HALF MOON CO., Box 27A, Plainfield, N. J.

## CANE STAKES

## LIGHTNING SERVICE

ON

## FRESHLY IMPORTED

## JAPANESE BAMBOO CANE STAKES

from NEW YORK, CHICAGO, PORTLAND, ORE.

Write for our competitive prices

and generous quantity discounts.

MC HUTCHISON & CO.

695-N Grand Ave. Ridgefield, N. J.

2505 S. E. 11th Ave. Portland 2, Ore.

## CANE STAKES

Green dyed and plain yellow Bamboo. All sizes.

GOLD MEDAL BRAND

Your guarantee of satisfaction. Come to American headquarters when you are in the market.

GEO. H. MAUS, INC.

BAMBOO IMPORTERS

Since 1905 Amsterdam, N. Y.

## BAMBOO CANE STAKES

For greenhouse and nursery purposes.

All types and sizes.

Write for prices and quantity discounts.

ALEC HENDERSON, INC.

1313 W. Randolph St. Chicago 7, Ill.

## OUTDOOR BAMBOO STAKES

All sizes for immediate delivery.

Ask for our Nursery Supply List.

HALF MOON CO., Box 27A, Plainfield, N. J.

## VIBURNUM CARLESI COMPACTA (NEW)

This is a compact form of Viburnum carlesii with dark green leaves and buds up very

readily. Per 100 Per 1000 (EACH) (EACH)

Strong 2-yr. grafts \$1.50 \$1.25

C. HOOGENDOORN, NURSERYMAN

413 Turner Rd. Newport, R. I.

## KOREAN FRAGRANT VIBURNUM

VIBURNUM CARLESI, one of the best.

2 to 3 ft., B&B \$3.50

3 to 4 ft., B&B 5.00

Larger specimens according to value.

GEORGE F. BLOOMER NURSERIES

Route 69 Flemington, N. J.

Phone Flemington 155-3

## VIBURNUM ODORATISSIMUM

Clean and healthy

2 1/2-in. pots, \$15.00 per 100.

COTTAGE HILL NURSERY

4000 Japonica Lane Mobile, Ala.

## VINCAS

## VINCA MINOR (PERIWINKLE)

Hardy field-grown plants, clumps.

10 to 20 leads \$45.00 per 1000

20 to 30 leads 60.00 per 1000

Order now for spring planting. 2 per cent discount for cash.

J. A. WEDDINGTON & SON

4414 Holston Drive Knoxville, Tenn.

## WANTED

## SURPLUS NURSERY STOCK

for distribution to chain store accounts in

the East and Midwest. Send us your list of

surplus stock with price listings for volume

shipments. Call us for immediate action.

ARTHUR GAKLIS

43-45 Summer St. Somerville 43, Mass.

Phone MOnument 6-3015

## WANTED

700 Juniperus pfitzeriana, 2 to 2 1/2 ft. spread

600 Taxus brevifolia, 2 to 2 1/2 ft. spread

400 Taxus hatfieldi, 2 1/2 to 3 ft. high

15 Platanus acerifolia, 9 to 10-in. cal.

F.O.B. New York City. Perfect No. 1 grade.

SAXE CONTRACTING CO.

136 E. 57th St. New York 22, N. Y.

Wanted—Rare and unusual Evergreens;

variegated, pendulous, prostrate, fastigiatia and dwarf forms of both conifers and broad-leaved Evergreens. Please write.

John D. Corbit, Jr., 821 Hagy's Ford Rd., Narberth, Pa.

Wanted—Lythrum Mordens Gleam, rose-pink; sizable quantities desired. Airmail

prices and quantities available to

Ginden Nursery Co., 139 S. El Camino, San Bruno, Calif.

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variegated, pendulous, prostrate, fastigiatia and dwarf forms of both conifers and broad-leaved Evergreens. Please write.

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prices and quantities available to

Ginden Nursery Co., 139 S. El Camino, San Bruno, Calif.

## CHRISTMAS TREES

10,000 Scotch Pine, Cattaraugus County, N. Y., Christmas trees. First cutting. Write.

J. D. Perry, R. 2, Mayville, N. Y.

## COLOR TAGS

## COLOR PICTURE TAGS

Quick shipments. Reasonably priced.

Shrubs, shade, fruits, vines, flowering trees, etc. Write for price list.

GLOBE NURSERIES

Box 249 McMinnville, Tenn.

## CONTAINERS

## EGG CANS

By car or truckloads.

Carloads, unpainted, unpunched, 8c to 10c

at source; freight to be added. Approximately 7000 per carload.

Also available at Scottsville at these

prices: Unpainted, unpunched, 17c; painted

and punched, 22c.

Approximately 2000 per truckload. Prices subject to market changes.

All prices NET CASH.

VERHALEN NURSERY CO.

Scottsville, Tex.

## KNOCKED-DOWN CANS

(Pat. No. 2332087)

Shipped and stored flat.

New tin sheet metal cans, now available

in 3 sizes, to enable nurserymen and

retailers to sell roots with their stock. Grow in

tins cans that will eliminate your packaging

and replacement problems.

Write for prices and sizes.

BENSON & WEDDING

Knocked-Down Cans

16730 Sayre Ave. Tinley Park, Ill.

## FERTILIZERS

## PETERS SPECIAL

CONTAINER-GROWING FERTILIZERS  
All materials listed are ideal for container-growing purposes.

## SOLUBLE FERTILIZERS

21-7-7 Azalea Neutral (non-acid forming)  
21-7-7 Azalea Acid (heavy acidifying action)  
Both above, \$6.50 per 25-lb. bag.

\$22.00 for 4 25-lb. bags.

20-20-20 General Purpose Feed

\$7.00 per 25-lb. bag, \$24.00 for 4 25-lb. bags.

## LONG-LIFE FEEDS

13-6-6 Organic Special Du Pont Uramite Nitrogen and highest grade natural organics. The finest long-life dry feed. Unexcelled for containers.

37.50 per 25-lb. bag, \$28.00 for 4 25-lb. bags. Du Pont Uramite, 38 per cent nitrogen from methyl-urea, \$12.00 per 50-lb. bag.

Also available: Chelated Iron, Chelated Trace Element Complexes, Fritted Trace Elements, etc.

## FRITTED POTASH

Contains 32 per cent K<sub>2</sub>O, plus fritted trace elements. Will not leach away. Gives 6 to 9 months' assured supply of Potash, regardless of leaching rain or heavy watering. \$9.00 per 25-lb. bag; \$8.00 per 25-lb. bag for 4 to 32 bags.

Write for complete price list.

Freight prepaid to any state in the Union with the exception of Alaska, on all orders totaling 300 lbs. or more. West of the Mississippi, add 2c per lb. on 200 lbs. and over, prepaid shipments. F.O.B. Allentown, Pa., on all orders less than 300 lbs.

ROBERT B. PETERS CO.

323 North 15th St. Allentown, Pa.

Small Ads Do Great Things in the American Nurseryman Classified Section.

## FLATS

## WHITE CEDAR FLATS

Order	Size I.S.M.	Price per	Wt. per
No. 1.	14x20x2 1/2-in.	\$27.00	320
No. 2.	14x20x3 1/2-in.	31.50	400
No. 3.	12x16x2 1/2-in.	20.75	260
No. 4.	12x16x3 1/2-in.	24.50	275
No. 5.	14x16x2 1/2-in.	23.25	275
No. 6.	14x16x3 1/2-in.	27.50	290
No. 7.	15x22 1/2x2 1/2-in.	30.75	380
No. 8.	15x22 1/2x3 1/2-in.	35.50	425
No. 9.	14x16x2 1/2x2 1/2-in.	30.00	390
No. 10.	11 1/4x22 1/2x3 1/2-in.	29.00	400
No. 11.	14x16x5-in.	32.75	450
No. 12.	5x11x5-in.	16.75	160
No. 13.	5x16x5-in.	18.00	215
Plant boxes.	5x8 1/2x2 1/2-in.	5.50	45

Skeleton flats to carry TEKPAKS and similar growing containers. (Write us for price list.)

All other sizes quoted on request.

5 per cent discount on orders of 1000 or more; 10 per cent discount on carloads of 30,000 lbs. or more.

Bottoms and sides are 3/8-in. thick and ends are 1/2-in. thick. All material surfaced on one side.

Your name and address printed, up to 3 lines in black ink, on one or both end pieces at the following rates: \$1.00 setup charge, plus 1c per end piece for the first 1000 ends; 1c per end thereafter.

Shipped knocked-down in units of 25. F.O.B. Cook. All shipments by truck unless otherwise specified. Attach check.

## H. C. HILL &amp; SONS

Manufacturer of flats, dowels and specialties.

Phone NOrth 6-3348, Cook, Minn.

## CYPRESS FLATS

TOP-GRADE FLATS THAT LAST	Per 100	Wt.
No. Size I.S.M.		
1. 14x20x2 1/2-in.	\$25.00	590
2. 14x20x3 1/2-in.	29.00	680
3. 12x16x2 1/2-in.	20.00	440
4. 12x16x3 1/2-in.	24.00	530
5. 14x16x2 1/2-in.	22.00	510
6. 14x16x3 1/2-in.	26.00	590
7. 15x22 1/2x2 1/2-in.	29.00	670
8. 15x22 1/2x3 1/2-in.	33.00	780
9. 11 1/4x22 1/2x2 1/2-in.	23.00	540
10. 11 1/4x22 1/2x3 1/2-in.	28.00	630
11. 14x16x5-in.	30.00	720
12. 5x11x5-in.	16.00	300
13. 5x16x5-in.	18.00	380

Any size to order. Write for price list on skeleton flats. Bottoms and sides are 3/8-in. thick; ends 1/2-in.; all planed one side. 5 per cent discount on orders of 500 or more. Check with order. Up to 8 lines printing in black ink if desired: \$1.00 setup charge plus 1c per end piece. Shipped K.D. in bundles of 25. F.O.B. Williamson, by truck, unless specified otherwise.

## H. C. HILL &amp; SONS

P. O. Box 747 Williamson, N. C.  
Phone Swift 2-4127

## REDWOOD FLATS, K.D.

Fine stock obtainable. Guaranteed all clear heart. Size 20x15x3 in. inside measure, \$38.00 per 100.

1x1-in. Cypress stakes, pointed.

50 pc. to bundle, 4 ft., \$3.50 per bdl.

50 pc. to bundle, 5 ft., \$4.50 per bdl.

50 pc. to bundle, 6 ft., \$5.50 per bdl.

Ship same day. Cash with order, please.

YOHO & HOOKER, YOUNGSTOWN 2, O.

## GRAFTING MATERIALS

## GENUINE GRAFTING WAX

In bulk chunks. Apply with a small brush after melting wax by heat.

1 lb., 80c plus postage. Cash, please.

KETTLER NURSERY  
922 N. Second St.

Platteville, Wis.

## HEATERS

## LP AND NATURAL GAS UNIT HEATERS

Best for plastic houses. Quick delivery. Prices start as low as \$167.00. Write for information on all unit heaters.

ROUGH BROS.

4229 Spring Grove Ave. Cincinnati 23, O.

## IRRIGATION EQUIPMENT

## IRRIGATION EQUIPMENT

Buy direct from factory. New or used pumps, aluminum or steel irrigation pipe, fittings, irrigation well service. Moulton Eagle boom sprinkler, 3 sizes. Write for free catalog.

MOULTON IRRIGATION CO.

Dept. AN9 Withrow, Minn.

## LABELS

## DAHLIA OR TREE LABELS

Priced per carton  
Plain Painted  
3 1/4 x 5 1/2 ins., notched, not wired \$3.00 \$3.60

3 1/4 x 5 1/2 ins., wired (copper) ... 3.95 4.90

## POT LABELS

4 1/2 x 5 1/2 ins. (cartons 1000 each) ... 2.95 4.60

5 1/2 x 5 1/2 ins. (cartons 1000 each) ... 4.30 5.10

6 1/2 x 5 1/2 ins. (cartons 1000 each) ... 4.70 6.80

## Priced per carton

Plain Painted  
5 1/2 ins. (cartons 500 each) ... \$3.60 \$4.30

5 1/2 ins. (cartons 500 each) ... 4.20 5.10

## GARDEN STAKES

5 1/2 ins. (cartons 250 each) ... 3.00 3.60

10 1/2 ins. (cartons 250 each) ... 3.30 3.90

12 1/2 ins. (cartons 100 each) ... 2.00 2.40

Our labels are perfectly white and smooth on both sides and are pronounced by growers on the best and most economical.

Catalog on request.

"We ship same day."

YOHO & HOOKER, YOUNGSTOWN 2, O.

## ORCHID SUPPLIES

## HOOF AND HORN MEAL

Slow acting source of nitrogen.

1 lb., 20c; 25 lbs., \$4.50; 100 lbs., \$14.50.

## AMMONIUM NITRATE

A rapid source of nitrogen.

1 lb., 15c; 25 lbs., \$2.75; 50 lbs., \$7.50.

## FISH MEAL

High protein content (approx. 64 per cent).

1 lb., 60c; 5 lbs., \$2.75; 10 lbs., \$5.00.

## SHREDDED WAX PAPER

For packing, protecting blooms.

1 lb., 85c; 10 lbs., \$7.50; bale, \$35.00.

## Priced F.O.B.

WRIGHTWOOD FLORAL CO.

1420 Wrightwood Ave. Houston 9, Tex.

Sell Stock Quickly and Easily with American Nurseryman Classified Ads.

## PEAT MOSS

"BRODLEAF" Holland Peat Moss. Carlots.

Standard 7 1/2 cft. Gardener 6 cft. and Halves.

Jumbo for growers, two bales equal three.

HALF MOON CO., Box 27A, Plainfield, N. J.

## PLANT FOOD

## CHLOROMONE

Liquid plant hormone.

4-oz. jar ..... \$3.00

Case of 12 ..... 23.40

Case of 24 ..... 43.20

Gallon tin ..... 45.00

## HESS' NURSERIES

P. O. Box 128 Wayne, N. J.

## Turn your Surplus Stock

into cash

with a Classified Ad in

the American Nurseryman.

## PLASTIC FILM

## POLYETHYLENE FILM

1 1/2 mil., black, in 100-ft. rolls, 3 ft. wide, \$20.40; 4 ft. wide, \$27.00.

2 mil., natural, in 200-ft. rolls, 4 ft. 2 ins. wide, \$8.00; 8 ft. 4 ins. wide, \$15.00; 12 ft. wide, \$21.60.

4 mil., natural, in 100-ft. rolls, 2 ft. wide, \$6.00; 4 ft. wide, \$8.00; 6 ft. wide, \$11.20; 8 ft. wide, \$14.40; 10 ft. wide, \$16.00; 12 ft. wide, \$21.60; 14 ft. wide, \$25.00; 16 ft. wide, \$28.80; 20 ft. wide, \$36.00; 24 ft. wide, \$42.20; 28 ft. wide, \$50.40; 32 ft. wide, \$57.60.

10 per cent discount on orders over \$24.00.

20 per cent discount on orders over \$60.00.

35 per cent discount on orders over \$60,000.

We pay freight if check is with order.

6 mil. available in width up to 32 ft.

ROUGH BROS.

4229 Spring Grove Ave. Cincinnati 23, O.

## POLYETHYLENE FILM

SUN-RESISTANT BLACK for mulching.

.0016 MIL. .... \$7.75 roll

3 ft. x 1000 ft. .... 15.50 roll

4 ft. x 1000 ft. .... 20.50 roll

NATURAL TRANSPARENT ONLY.

.002 MIL. ALL ROLLS 200 FT. LONG.

4 ft. 2 ins. x 200 ft. .... \$6.25 roll

8 ft. 4 ins. x 200 ft. .... 12.50 roll

12 ft. x 200 ft. .... 17.70 roll

NATURAL TRANSPARENT ONLY.

.004 MIL. ALL ROLLS 100 FT. LONG.

3 ft. x 100 ft. .... \$5.00 roll

6 ft. x 100 ft. .... 7.00 roll

12 ft. x 100 ft. .... 11.00 roll

18 ft. x 100 ft. .... 15.00 roll

24 ft. x 100 ft. .... 20.50 roll

MINIMUM ORDER .004 mil. 4 rolls up to

8 ft. Write for low price on quantity orders.

Other sizes and weights available up to 40 ft. in natural and black film.

PHONE Baldwin 3-8277.

DAYTON NURSERY & GARDEN SALES

P. O. Box 763 Dayton 1, O.

## POLYETHYLENE FILM

Natural transparent, made from Du Pont

Alathon, the amazing film for greenhouses.

.004 mil., all rolls 100 ft. long.

3 ft. wide by 100 ft. long ..... \$6.00 per roll

4 ft. wide by 100 ft. long ..... 8.00 per roll

8 ft. wide by 100 ft. long ..... 12.00 per roll

12 ft. wide by 100 ft. long ..... 16.00 per roll

Other sizes available up to 20 ft. wide.

Send \$1.00 for liberal sample.

4 ft. x 10 ft. postpaid.

Special deal for greenhouse construction.

5 rolls to 10 rolls, 25 per cent discount.

100 rolls or more, 35% per cent discount.

"We ship same day."

YOHO & HOOKER

520 Williamson Ave. Youngstown 1, O.

## VIKING-CLOTH, a film embedded in Burlap.

## POLY-FILM, all in Sheets and Rolls.

## HALF MOON CO., Box 27A, Plainfield, N. J.

## PLASTIC GREENHOUSES

## PLASTIC GREENHOUSES

Quonset type, including ribs, galvanized

wire and Visqueen cover. Can be set up in

one day. 16 ft. x 47 ft. 6 ins. \$285.00; 16 ft. x 97 ft. 6 ins. \$45.00. Gables and foundation not included. Freight prepaid if check is with order.

ROUGH BROS.

4229 Spring Grove Ave. Cincinnati 23, O.

## WATCH YOUR RESULTS FROM

American Nurseryman Classified Ads.

## RUBBER TUBING

## RUBBER TUBING FOR

GUYING WIRE.

3/16-in. Inside dia. by 5/16-in. outside dia.

6 1/2-in. lengths for \$3.50; 60 lengths for

\$30.00. Cash with order. F.O.B. Middlefield, O.

Let us quote you on any size and length

cut desired.

MARKAY NURSERY

Lake St. Middlefield, O.

More customers for you!

Over 9,500 subscribers, all active buyers.

see your ad in the American Nurseryman.

## SPHAGNUM MOSS

Fresh, clean sphagnum moss, write or

phone City Point 133 for our low prices on

wirebound bales in truckloads or carlots.

Pure Sphagnum Moss Co., City Point, Wis.

NO. 1 SPHAGNUM MOSS

Large burlap bales, long fibered, clean,

firmly packed; bale, \$1.25.

JOSEPH JAMROS, CITY POINT, WIS.

Long-fibered sphagnum moss, also ground

moss. Price us on truckloads delivered.

Warren Moss Co., Warrens, Wis.

Surplus Stock

can be easily and quickly turned into

Cash

by listing it in the

American Nurseryman Classified Ads.

## STAKES

## CYPRESS PLANT STAKES

**PLAN CENTENNIAL GARDEN**

[Concluded from page 97]

tion will be supplied if it is needed. Nurserymen at the meeting showed considerable enthusiasm over the garden, and fulfillment of the needs seems assured.

Serving on an advisory committee for development of the "International Garden of Tomorrow" are Jan de Graaff, Oregon Bulb Farms, Gresham; Avery Steinmetz and Paul Van Allen, Portland Wholesale Nursery; Henry Hausch, Roseway Nurseries, Beaverton; Richard McCarter, Swan Island Dahlias, Canby; Walter Marx, Walter Marx Gardens, Boring; E. (Mike) Dering, Peterson & Dering, Scappoose; Wayne McGill, A. McGill & Son, Fairview; Elmo Chase, Chase Gardens, Eugene; Robert Walker, Hollgate Nursery Co., Portland; Ambrose Brownell, Brownell Farms, Milwaukie; Edgar L. Kline, bulb grower, Oswego; George Teufel, George Teufel Holly Farm, Portland; Fred Trullinger, Portland Seed Co.; Dr.

Matthew C. Riddle; Stephen Swan, and Harry Buckley.

Donald Stryker, nurseryman, Langlois, and Norvell Gillespie, writer, are horticultural advisers. Dean Collins, feature writer for the Oregon Journal, is state coordinator.

C. H. P.

**OREGON NOTES**

Ten garden shops of the Portland area have joined with the Portland Seed Co., Sunshine Peat Moss Co., and the California Spray-Chemical Co. in the most ambitious advertising program yet seen in this line of business in the area. The 10 garden shops raised \$450 each for a total of \$4,500, which was matched by the three wholesale companies, making a total of \$9,000. The money is being spent in a 10-week advertising program calling for 150 spot announcements on radio; one advertisement for each garden shop on television, and an open house for each firm, with advertising aimed each week

at one of the firms and its open house program. Each firm is to give away a power mower during its open house and each will offer a truckload of peat moss at greatly reduced prices.

The Columbia River chapter of the Oregon Association of Nurserymen scheduled a meeting at the Mallard restaurant, Gresham, the evening of February 26. Dr. R. M. Bullock, superintendent, Northern Willamette valley experiment station, spoke on the subject of "Chemical Weed Control."

The Willamette chapter of the O. A. N. met in the Marion hotel February 26. Program for the evening was supplied by Mrs. Charles Drew, Drew's Nursery, Beaverton, who showed pictures taken by her on a European trip.

An interesting article carried in the Sunday Oregonian Home and Garden magazine February 8 dealt with the first orchard established in Oregon by Henderson and Seth Lewelling. The orchard was planted at Milwaukie on a 100-acre claim

**WANTED and FOR SALE ADS**

Help and Situation Wanted and For Sale Advertisements.

Display: 84.50 per inch, each insertion.

Liners: 40¢ line; minimum order 84.00.

**HELP WANTED**

Due to increased business, we need the following experienced men:

1. Combination landscape architect and salesman—to call on customers.
2. Landscape planting foreman—must know plant material, balling and be able to handle men.
3. Nursery maintenance man—should be handy with tools and equipment; know plant material and balling. Furnished 2-bedroom house on premises.
4. Assistant manager for garden center—must be sharp in sales, merchandising and know allied lines.

Age: 25 to 45 years. Salary commensurate with ability and qualifications. Insurance benefits and bonus. Permanent, immediate employment. All men should be experienced and above average in initiative, ambition and workmanship. Furnish complete resume and photo in first letter. Location: Upper midwest. Write Box 560, care of American Nurseryman.

**HELP WANTED**

## GARDEN CENTER PERSONNEL

1. Assistant manager for garden center—must be sharp in sales, merchandising and know allied lines.
2. Department supervisor for seed and bulb department. Must know seeds, flower and vegetable, and bulbs and insects. Age: 25 to 45 years. Salary commensurate with ability and qualifications. Insurance benefits. Permanent, immediate employment. All men should be experienced and above average in initiative, ambition and workmanship. Furnish complete resume and photo in first letter. Location: Central Michigan. Write Box 558, care of American Nurseryman.

**HELP WANTED**

Landscape superintendent, designer, salesman. An excellent full-time position. Salary \$5200 to \$6500 plus percentage of profit. Midwest. Write to Box 575, care of American Nurseryman.

**HELP WANTED**

## NURSERY FOREMAN

To work with crew of 3 to 5 men; experienced in all phases of planting, pruning, shearing, balling and burlapping, etc. We have 40 acres of specimen nursery plants and trees requiring larger-size balling and have tractor and tree-moving equipment to handle larger sizes. Located in Kentucky. Man seeking permanent position only, please inquire. Give experience, age, references that can be used if progress is made, salary you would require, family, etc. Address replies to Box 579, care of American Nurseryman.

**HELP WANTED**

Young college graduate who wants a permanent position with a future. Two steel companies now building new \$600 million plants in our immediate area will create a new city around us. We must expand to meet the resulting demand. We require a man who is willing and able to do everything connected with a nursery operation as if it were his own business—sketch, sell, grow and plant. Send complete personal history and snapshot in first letter together with expected starting salary. Our employees know of this ad.

DUNES NURSERY  
c/o Kenneth Lackey  
8333 Lake Shore Dr. Gary, Ind.

**HELP WANTED**

Excellent opening with an old-established firm near Boston, for a landscape salesman experienced in tree work. If interested give age and all pertinent information in first letter. All replies will be kept confidential. Write Box 567, care of American Nurseryman.

**HELP WANTED**

## NURSERY FOREMAN

A man to take full charge of about 40 acres under cultivation, fairly well stocked. We are doing wholesale, retail and landscape work. Must be able to handle help. Year-round employment. Located in industrial section in Michigan. A good position for the right man. Write Box 577, care of American Nurseryman.

**HELP WANTED**

## LANDSCAPE ESTIMATOR

Experienced nursery salesman, familiar with plants in the Chicago area and a basic knowledge of landscape design. Earnings on commission basis, \$6000 to \$8000. Write:

Nursery Dept.  
AMLING'S FLOWERLAND  
8900 W. North Ave.  
Maywood, Ill.

**HELP WANTED****LANDSCAPE FOREMAN**

We are interested only in the man who has had experience in high-class residential and institutional work. You must know men and equipment and be able to present a good appearance to the public. You will receive an above-average starting salary and the opportunity to advance with a progressive organization. Call or write:

E. WASSENAAR & ASSOCIATES  
1220 Fowler Ave., Evanston, Ill.  
Davis 8-2368

**HELP WANTED****SALES POSITION OPEN**

Medium-size midwestern grower-nurseryman has opening for wholesale salesman. Old, established firm growing a full line of ornamentals. Now concentrating on Great Lakes area, but need more coverage. Salary plus bonuses—no commissions. Send resume to Box 523, care of American Nurseryman.

**SITUATION WANTED**

Young family man of 37, desires position with possibility of future financial interest in garden center or nursery combination or would like to purchase same. Must be in western Oregon or Washington, 14 years' experience as owner and operator of garden center in Illinois. Moving to west coast in late June. Address replies to Box 587, care of American Nurseryman.

**HELP WANTED****SALESMAN**

Need experienced design man, with sales ability, for permanent position with one of Virginia's leading nurseries. Salary commensurate with ability. In reply, please state marital status, age and experience.

WOOD-HOWELL NURSERIES, INC.  
Lee Highway  
Bristol, Va.

**HELP WANTED**

Well-established landscape firm, Chicago area, has opening for combination landscape salesman-foreman; capable of selling; drawing rough plans; supervising; executive caliber. Excellent wages, fine future. Write full particulars. Our employees know of this ad. Reply to Box 521, care of American Nurseryman.

**HELP WANTED****SALESMAN**

Two exclusive territories available July 1 with leading eastern wholesale nursery. Bare-root and expertly packaged line of deciduous material. Previous experience in wholesale sales or garden store operation desirable. Drawing account and commissions. Write giving full details to Box 599, care of American Nurseryman.

**SITUATION WANTED** — Experienced worker, originally from Holland, age 33, single, desires position in landscape gardening and maintenance supervision. Experience acquired at the state capitol grounds, Olympia, Wash. Will graduate in floriculture, June, 1959, from State College of Washington, Pullman. Excellent references. Pacific coast states and American employer(s) preferred. GARY VREEBURG, 300 Colorado, Pullman, Wash.

**HELP WANTED** — Monument Salesmen. Genuine marble and granite monuments. Agents wanted for local communities. No experience necessary. GUARANTEE MONUMENT CO., 479-AN Marietta St., Atlanta 13, Ga.

**HELP WANTED** — Experienced man to take charge of garden center. \$100 per week, plus bonus. Reply to: JOHN GULDEMOND, II, D. 2, Harrisburg, Pa.

**FOR SALE** — Businesses may be offered for sale by use of a want ad liner such as this. Cost: 40¢ per line (minimum order \$4.00). Your ad will be seen by more than 9800 American Nurseryman readers.

**FOR SALE****GRAPHOTYPE LABELING MACHINE**

Electric-powered, practically new, embosses plant names clearly on zinc tags which last a lifetime. Most effective and very simple to use. Will sacrifice for quick sale at approximately half of cost price. \$700 F.O.B. here.

**CEDARBROOK NURSERY**  
Short Hills, N. J.

**FOR SALE****RASPBERRY PLANT PATENT NO. 1567**

Burgundy in color. One of the finest berries grown. For particulars write to:

Conio F. Loretto, Sr.  
**LOREY FARMS**  
Versailles Plank Rd.  
North Collins, N. Y.

**FOR LEASE**

Have a desirable location for a plant-land-type operation in the center of a growing town of 45,000 population. 200-ft. frontage and 300-ft. depth. Can be leased for short or long term at reasonable rate. For appointment write or phone:

G. S. KEITH  
193 N. Main St., Manchester, Conn.  
Phone: MI 9-8191

**BUSINESS OPPORTUNITY****PARTNER WANTED**

I am interested in financing an energetic, experienced individual interested in the growing of nursery stock anywhere in the New England or neighboring areas. I will handle financing and sales to already established customers. Write me in confidence.

ARTHUR GAKLIS  
43 Summer St.  
Somerville 43, Mass.

**SITUATION WANTED**

Ambitious young man, college trained in botany, desires work with nursery. Familiar with conservation and forestry; highly interested in research and plant diseases. 21 years old, married, 3 children, veteran. Willing to relocate.

DEAN McCOSHLAND  
5 E. Sycamore St., Liberty, Ind.

**HELP WANTED** — Landscape Foreman.

We have year-round positions for 4 landscape foremen who know how to handle men and equipment. Must have knowledge of plant material and be able to install lawns and plantings both private and industrial. Nursery located in the Niagara Falls area. Starting salary \$5200 a year, plus benefits and bonus. Write Box 583, care of American Nurseryman.

**WANTED TO BUY** — Young, ambitious, married man wishes to purchase small retail nursery in midwest. Presently employed by nursery. Has thorough knowledge of growing, retailing and landscaping. Write Box 589, care of American Nurseryman.

**FOR SALE** — New, growing garden center in southeastern Massachusetts. Nursery, perennials, hardy mum reputation, house plants, garden and gift shop. Expensively remodeled home, barns. Orlyt greenhouse, lath house, 10 acres. Excellent potential. Reply to Box 566, care of American Nurseryman.

**FOR SALE****PERENNIAL AND PROPAGATING NURSERY**

A going business in booming southwestern Ohio. Over 25 years at this location.

10 acres unsurpassed soil, fine Cape Cod residence, greenhouses, sales and packing buildings. All in edge of town on heavily traveled interurban state highway, a few minutes from great turnpikes running north, south, east and west.

Outstanding advantages in both growing and selling facilities. Deep friable silt loam, black and also light colored.  $\frac{1}{4}$ -acre pure sand. Nationwide, long-established following in wholesale. Ideal retail location and setup.

Owner retiring. Possession this spring or when desired. Pay out of annual income. Down payment of about \$22,000. Write Box 584, care of American Nurseryman.

**FOR SALE**

Invest \$5,000 and start yourself on the road to ownership of one of the finest nursery opportunities in southern Michigan or purchase outright at reasonable terms. Present owner desires a qualified young nurseryman to start. Ideal stock, close to metropolitan centers of southern Michigan. Excellent opportunity for retail sales at nursery. Modern home and building. On paved road and one mile from new four-lane U. S. Highway 127. Only two miles from new consolidated school. Price: \$50,000.

VERNON SHAHAN, Real Estate  
410 First St., Jackson, Mich.  
Phone: STate 4-8596

**FOR SALE**

Long-established subtropical nursery located on Pacific coast Highway 101, 20 miles north of San Diego, Calif. Very tropical climate, without the humidity of most tropical areas. No smog. A fast-growing area, close to large engineering experimental laboratories with huge payrolls. Wonderful opportunity for a young or middle-aged man with horticultural and business knowledge. Plenty of landscape work. Potential is unlimited. Owner retiring. Write: OWNER, P. O. Box 841, Vista, Calif.

**FOR SALE**

Used complete greenhouses. Used greenhouse materials, glass, pipe, valves, etc. Greenhouses bought for wrecking.

SEABOARD GENERAL SUPPLY CO.  
Elizabeth 4-9041  
1080 Magnolia Ave., Elizabeth, N. J.

**FOR SALE**

Evergreen nursery located  $\frac{1}{4}$  mile north of Salisbury, Pa., on R. D. 219, 8 acres, house, garage and shed. 5 acres planted. 25 years in business. Good business for 200-mile radius. Old age reason for sale.

ELKLICK NURSERY  
Salisbury, Pa.

**FOR SALE****LANDSCAPE NURSERY**

Excellent business opportunity. Good location, good merchandise, good reputation. Write to P. O. Box 65, Daytona Beach, Fla.

**BUSINESS OPPORTUNITY**

Capital to invest in progressive nursery. Active partnership desired, with option to purchase controlling interest. Reply to Box 571, care of American Nurseryman.

# get *EXTRA PROFITS* every time you sell a plant!

## IT'S EASY WITH SMART MODERN PLANTERS BY PATIO WOOD

You not only make a higher profit—you protect your reputation when you sell the quality line—PATIO WOOD planters and accessories—built to last the lifetime of the plant—handsome enough to bring the customer back for more. Order direct for high profits on a line that can't be compared for quality or competitive pricing!

Send today for new 1959 catalog.



**PACIFICA**

Stunning new planter in the oriental mood; redwood, gray or black.

WALL POCKETS • SQUARE TUBS • HANGING BASKETS • OCTAGONAL TUBS • GARDENETTE PLANTER • PLANT WALKERS • COPPER PANS • PLANT ROLLERS • SNAP-ON CASTERS

## PATIO WOOD PRODUCTS

835 COMMERCIAL ST. • SAN GABRIEL, CALIF. • ATLANTIC 7-9374

## HAND TRUCKS

Especially built for handling  
B&B nursery material. Are  
built in three sizes, with  
capacity up to 1500 lbs.

Illustrated is our small  
model truck. One man  
can easily handle 600-lb.  
ball.

Write for folder giving  
details and prices.



## THE GARDEN SHOP, Inc.

6315 West 75th St.

Overland Park, Kansas

Phone Niagara 2-4838 (Kansas City, Mo.)

### BURLAST

#### POSITIVE PROTECTION

Burlap treated with BURLAST (dry powder mixed with water) resists rot and decay up to six months! Write for details.

HILL'S NURSERY

Burlap Division  
Box 43, Victoria, Tex.



### ULLMAN CLEAT

Strong, reliable, protects flowers from damage in transit, satisfies customers and insures better prices. The Ullman cleat grips sides of box, holds stems to bottom. Send for prices.

THE ULLMAN CO.,  
Northampton, Mass.

near the Willamette river. Seth Le-welling was an expert nurseryman from Iowa who, with his brother, brought some 700 fruit trees across the plains in 1847 to establish the first orchard in the state. Apples from the first crop of these trees brought \$1 each at Portland in 1851.

Bill No. 554 has been presented in the Oregon senate. If it is passed, this bill will provide \$30,000 for research in regard to starling control. The pestiferous birds have been causing heavy damage to some holly orchards in the state each winter.

In the mails recently was the interesting publication, *Growing Pains*, mailed twice a year by Cooper's Gardens, Canyonville, to customers and friends. In addition to plant news, the paper contains many items of general interest.

On March 5 and 6 the Oregon Journal held its 10th annual spring fair. A number of nurserymen joined other professional and amateur growers in the interesting show. Attractive displays and numerous door prizes helped to draw large crowds each day.

Paul Goodmonson, Corvallis, Christmas tree grower, has developed a new type of hydraulic tree planter, which he is using to plant some 300,000 tree seedlings this year on his Kings Valley property. His machine is designed to avoid sub-surface breakup of soil, and he has added gathering devices to close the furrow in the ground after the tree is inserted. Packing wheels have variable weights to tamp earth back into the furrows with just the right amount of force. A buzzer, sounding at regular intervals, determines the spacing of the trees for the workers setting the seedlings. The buzzer interval is adjustable to obtain any spacing desired.

The featured display of the "International Garden of Tomorrow" at the Oregon Centennial Exposition this year will be made up of roses developed by two Oregon nurserymen, Herman L. Greene, rose grower, Portland, and Gordon Von Abrams, hybridizer for Peterson & Dering, Scappoose. The announcement was made by Edward L. Boatwright, manager of the Centennial garden. Mr. Greene's rose is a bright red climber named Centennial Sweetheart. The rose developed by Gordon Von Abrams is called Oregon Centennial.

Mr. Von Abrams was also the subject of a recent article in the Oregonian Home and Garden magazine, which described his hybridizing research at Peterson & Dering and his research and experiments at the

# Screen Type PICKET FENCE

## ... ADDS PRIVACY TO YOUR LANDSCAPING

Most homes need special screening against unsightly views, around play areas, swimming pools or for containing small animals. Form nice backgrounds for plantings. Dowel construction—easy to assemble. Stringers, posts and half-round palings all peeled, white cedar. Shipped K.D. or in 8 ft. assembled panels. Write for catalog giving heights, etc.



**Also** Catalog shows  
Old English Post and Rail  
Fences—2 to 5 rail—all  
types. Have installations  
throughout U.S.A.

Gates, Lanterns, Rustic  
Tables and Settees,  
Shipped from Toledo or  
our W. Va. Yards.

**WOOD PRODUCTS CO., Toledo, Ohio**

California Institute of Technology, Pasadena, where he spends three months each summer. His Cal Tech experiments are concerned with the biochemistry of rose pigments.

Robert M. Snodgrass, Esch Nursery and Seven Dees Nursery, Portland, president of the O. A. N., was the speaker for the Eastmoreland Garden Club on February 18. His topic was rhododendrons and related shrubs.

C. H. P.

### OREGON BOARD MEETING

The board of directors of the Oregon Association of Nurserymen met at the home of Mr. and Mrs. Wayne Weeks, Weeks Berry Nursery, Salem, the evening of March 9. The meeting was led by President Robert Snodgrass, Esch Nursery and Seven Dees Nursery, Portland. During the busy session, Treasurer Paul Van Allen, Portland Wholesale Nursery Co., Portland, reported the finances of the association to be in good order. He also reported that another \$500 was invested in United States government bonds.

The executive secretary, Charles Potter, reported that the association incorporation procedures were nearing completion. Sam Rich, Rich & Sons Nursery, Hillsboro, chairman

**F.T.E.**  
Fritted Trace Elements

**SAFER! Surer!**  
Feeds plants  
all season

Provides essential iron, boron, manganese, zinc, copper and molybdenum in new *slow-soluble* (fritted) form. Won't leach away. Nontoxic when used as directed. More than 2 million pounds used last year in premium fertilizers. Try it and prove the difference for yourself! Send \$2.50 for 5-lb. bag (or \$3.95 for 10 lbs.)

**FERRO CORPORATION**, 4171 East 56 St., Cleveland 5, Ohio

### "MISTER 100"

Patent Applied For

**MIST PROPAGATION NOZZLE**—finest ever developed—wide coverage—flat plane of mist. Spaced 3 ft. apart—drilled and tapped holes— $\frac{1}{4}$ -in., 1-in. or larger pipe. Sample postpaid \$1.00. Satisfaction guaranteed. Send for your sample today.

**WHITE SHOWERS, INC.**  
17514 Woodward Ave. Detroit 3, Mich.

### BALED SHINGLE TOW

(CEDAR SHAVINGS)

**WM. A. JOHNSTON**  
1522 N. W. Thurman St. PORTLAND 9, ORE.

### BURLAP

Various Sizes

Write for prices and samples.

**STERLING BAG & BURLAP CORP.**  
41 Carolina St. Buffalo 1, N. Y.  
Phone: CL 2339



**Fog-mist**  
NOZZLE

for Propagation and Humidity Control

LONGER LIFE

PRECISE PERFORMANCE

BEST NOZZLE ANYWHERE

- Stainless Steel Orifice Insert
- Stainless Steel Target Screw
- Monel Metal Cylindrical Screen
- Phosphor Bronze Alignment Brackets

Nozzle Orifice At 20-lb. pressure  
No. Size Diameter G.P.M.  
550-A 0.28 in. 5 ft. .1

\$2.95 each. One dozen, \$23.60  
each. Postpaid with check or  
money order. Guaranteed. 3% tax  
in Florida.

**SPRAYERS & NOZZLES**

2575 28th Ave., No. ST. PETERSBURG 4, FLA.

**NEW! LAWN MARVEL**  
BRAND  
Concentrated Liquid Formula  
**EVERGREEN**  
**FOOD**

for foliar and root feeding

Lawn Marvel brand liquid formula Evergreen Food is the only liquid food ever developed specifically to feed all varieties of evergreen trees. This unique 28-18-8 formula will produce vigorous, sturdy growth and strong root development. MORE—it will restore sickly, scrawny trees to health in just one season.

Recommend Lawn Marvel's liquid formula to reduce shock and get new plantings started right. A natural tie-in sale.

\$18.00 per case of 12 2-lb. cans.

Suggested retail price, \$2.25 each.

Order now—prompt shipment assured!



**WRITE  
FOR BULK  
PRICES**



If your needs call for larger quantities of Lawn Marvel liquid formula Evergreen Food for general nursery use, write us for special prices of bulk supplies. Please give us your requirements and the quantity on which you wish a quotation.

**PLANT MARVEL LABORATORIES**

622 W. 119th St., Dept. AN-459

Chicago 28, Ill.

**HANDY PEONY SUPPORT**



Two Models . . .  
531E—31 ins. high  
One 14-in. loop

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of the legislative committee, reported the committee's efforts in regard to house bill 71 and the careful scrutiny of the various bills which might adversely affect the nursery trade in the state.

Also announced were the efforts of the transportation committee under Chairman Robert Mullison, A. McGill & Sons Nursery, Fairview, who has been conducting a lengthy fight to obtain a railroad acceptance of a carload limit rate for nursery stock shipments that takes into account the fact that nursery stock filling a car may not come up to the weight required by present regulations for a favorable rate. Western railroads have already accepted the idea, and eastern and southern railroads are soon to be contacted by Mr. Mullison.

Further legislative activity of the association was evidenced by the announcement that a number of association members planned to attend a hearing before the Oregon legislature subcommittee on education to encourage favorable action in regard to providing more agricultural research funds in the state. Paul Van Allen reported on activities of Oregon nurserymen in regard to nematode control on shipments of nursery stock into California and the action planned by nurserymen within the state of Oregon.

The board decided to hold the 1960 convention at Eugene again. Tentative dates are January 26 and 27, at the Eugene hotel. C. H. P.

**OREGON CHAPTERS ELECT**

The first dinner meeting of the Emerald Empire chapter, Oregon Association of Nurserymen, was held at Eugene on February 26. Elected president of the chapter was Vern Cornelius, Westside Lawn & Landscaping Co., Eugene. Robert Van Zonneveld, Van Dyke Gardens, Eugene, was elected vice-president; William Raper, Woodruff Nursery, Eugene, was elected representative to the state board, and Edward Cross, Cross Landscape Service, Eugene, became secretary-treasurer. Elected to 2-year terms as chapter directors were Bruce Brechbill, Brechbill's Nursery, Eugene, and Richard Miller, Edgewood Gardens, Eugene. Raper and Reed Vollstedt, Reed's Garden Centers, Eugene, are holdover directors. The program of the evening consisted of the showing of colored slides of rhododendrons, azaleas, camellias, delphiniums and fuchsias.

President Myron Lehne, Cascade chapter, of M. Lehne Nursery, Roseburg, led the recent meeting of the

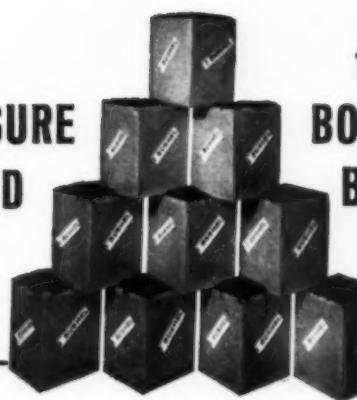
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Cascade chapter of the O. A. N., which was held at Cooper's Gardens, Canyonville. Mr. and Mrs. A. M. Cooper were hosts to the group, serving dinner before the business meeting. Elected as president for the coming year was Mr. Cooper, and Elwood Stanfield, S. & H. Landscape Nursery, Central Point, was elected vice-president. J. Vernon Marshall, Marshall Florist & Nursery, Roseburg, was re-elected secretary-treasurer of the chapter and representative to the state board. Alan Baker, Bakers Landscape Nursery, Klamath Falls, and Myron Lehne were elected chapter directors for 2-year terms, and W. R. Magness, Roseburg nurseryman, was elected for a 1-year term. The next meeting of the chapter is slated for June at the M. Lehne Nursery in Garden valley, near Roseburg, as was announced when the meeting was adjourned.

The Columbia River chapter of the O. A. N. met at Gresham recently, with President J. Frank Schmidt, J. Frank Schmidt & Sons, Troutdale, leading the meeting. Hans Nelson, Nelson Rose & Holly Farm, Troutdale, was elected president, and Bill Moller, Moller's Nursery, Fairview, was elected vice-president. Arthur Suhr, Mount Hood Nursery, Gresham, became secre-

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tary-treasurer. Elected to 2-year terms as directors were Robert Mullison, A. McGill & Son, Fairview, and J. Frank Schmidt, Jr., Troutdale. Melvin Surface, Surface Nursery, Gresham, and Erwin Fowler, Milton Nursery Co., Milton-Freewater, have 1-year terms to serve as directors. J. Frank Schmidt, Jr., and Hans Nelson were re-elected as representatives to the state board. Speaker at the meeting was Dr. R. M. Bullock, superintendent, Northern Willamette valley experiment station. He talked on chemical weed control.

The Willamette chapter met at Salem at a dinner meeting. Wayne Weeks, Weeks Berry Nursery, Salem, conducted the meeting. Officers elected were Verl L. Holden, H. L. Pearcey Nursery Co., Salem, president and state board representative; P. H. Brydon, Brydon's Nursery & Seed Store, Salem, vice-president, and Martha Jane Pearcey, H. L. Pearcey Nursery Co., secretary-treasurer (re-elected). Mrs. C. R. Winger, Corvallis, and Arthur Plant, A. Plant Greenhouses, Salem, were elected as directors for 2-year terms.

Ivan Arneson, Arneson's Nursery, Canby, president of the Clackamas chapter, led the meeting of that chapter recently held at Oregon City. Harold Miller, Miller Landscape Service, Milwaukie, reported on the plants and labor that will be needed from nurserymen for the "International Garden of Tomorrow" at the Oregon Centennial Exposition. Dave Brown, Wichita Nursery, Milwaukie, announced the dates of the annual Multnomah Parade of Gardens (April 15-19) and urged nurserymen to cooperate in an effort to make it a great success. Charles Potter, executive secretary of the O. A. N., Milwaukie, told the group about the incorporation procedures and also said that the association is now protected with liability insurance. Robert Smith, assistant Clackamas county agent, reported that Dr. Ticknor is now at the Northern Willamette experiment station and he asked that nurserymen consider providing an advisory group to work with the new station. Weed control experiments are to be among the first conducted at the station, said Mr. Smith.

Ray Burden, Hazel Dell Gardens, Canby, was elected chapter president for the coming year. Harold Miller became vice-president and Howard Smith, Four Mile Farm & Nursery, Canby, was elected secretary-treasurer. Ralph Elser, Elser's Nursery, Milwaukie, and Dave Brown were elected directors for 2-year terms.

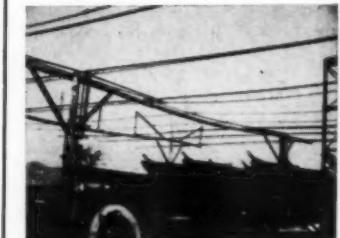


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and Lowell Hall, Hall's Half Acre, Milwaukie, was elected as a director to fill an unexpired term of one year. Ivan Arneson became the state representative for the chapter. Pete Nuffer, Mountain View Nurseries, Inc., Troutdale, provided some interesting colored slides and commentary on container growing.

C. H. P.

### O. A. N. CHAPTER MEETS

Nearly 40 members and guests of the Sunset chapter of the Oregon Association of Nurserymen attended a dinner meeting of the chapter at the Forest Hills Country Club, Cornelius, on the evening of February 16. Roy Smith, president of the chapter, Valley View Nursery, Beaverton, led the meeting. Jim Doty, secretary-treasurer of the chapter, Doty & Doerner Nursery, Portland, made several reports during the evening.

Charles Potter, O. A. N. executive secretary, was asked to make a few remarks concerning liability insurance. Later in the evening, Mr. Potter presented the chapter charter and officers' plaque to newly elected Vice-president Charles Drew, Drew's Nursery, Beaverton, who reported on the recent Oregon State College short course at Corvallis. He urged nurserymen not to miss these short courses in the future.

Elected as chapter officers for the coming year, in addition to Mr. Drew, were Patrick Dering, Peterson & Dering, Scappoose, president, and William Curtis, Wil-Chris Acres, Sherwood, secretary-treasurer. Directors elected were Roy Smith and Charles Walters, Charles E. Walters Wholesale Nursery, for 2-year terms, and Al Teufel, holly grower, Portland, and Klaas Ellerbrook, West Oregon Nursery, Portland, for terms of one year. Elected to serve on the O. A. N. state board for the coming year were James Doty and Phineas McCoury, McCoury's Garden Center & Nursery, Astoria.

### Trade Problems Discussed

In charge of the program was William Curtis. Speaker for the evening was Ray Gill, Gill Bros. Seed Co. Speaking of the various problems confronting horticulturists, Mr. Gill said that nurserymen, seedsmen and florists have a common ground on which to stand. He paid tribute to the part that garden clubs and garden magazines and newspapers have had in developing the garden industry of the country.

He remarked that increased costs of catalog production plus the in-

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crease in mailing costs have priced catalogs beyond the reach of many nurserymen. Fewer and fewer catalogs are being printed today, although his firm still puts out 90,000 catalogs twice each year. Regarding legislative problems, he warned the nurserymen that close attention must be given the legislative proposals which would further increase postage and parcel post rates. In this vein he also warned nurserymen to be prepared to fight any and all proposals which would impose a personal property tax on growing in the field.

Mr. Gill referred to his own experiences in developing new varieties of squash and marigolds. Important things which go into making a new variety popular are appearance, keeping quality and sales appeal, he said. It ordinarily takes long, patient work to develop a new plant variety. Nevertheless some new plants are brought onto the market more or less by accident.

He advised nurserymen to watch constantly for new plant materials. Mr. Gill mentioned that he is experimenting with a new late-fruiting peach. As a mother block for basic tree stock, he recommended the establishment of an orchard made up of old varieties of the various fruit trees, from which nurserymen can obtain scion wood.

Mr. Gill referred briefly to the importance of ample potash in the development of good flowers. It improves flower color and general quality and provides better keeping qualities and resistance to adverse conditions, he said. He closed with some warning notes concerning DDT and the effect of the material on human beings.

The evening closed with a showing of colored slides taken by Al Teufel on a hunting trip to Alaska, during which he spent 22 days on horseback in the Yukon.

C. H. P.

## GARDENERS' ASSOCIATION

Installation of officers and reports on insurance and credit union activities made up the annual meeting of the Mid-Peninsula Gardeners' Association February 20. The association is a group of garden maintenance operators who work in the Redwood City - Menlo Park - Atherton - Palo Alto-Los Altos area of the San Francisco peninsula and, along with similar groups of gardeners through the state, is a unit of the California Gardeners' Association.

The several smaller units hold monthly meetings at which representatives of garden material manufacturers give talks on the use of

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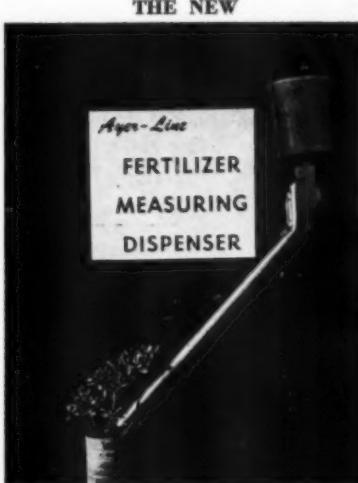
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care of their products. Members of the agricultural extension services of the University of California and other authorities also address the association on improved horticultural methods and current research.

Official delegates from each local group attend the meetings of the other groups, and every member is urged regularly to enroll in the adult education classes offered at the junior colleges and high schools near them. These activities keep the men up to date in their profession and keep the working standards and conditions throughout the state on a high level.

Presiding at the February Mid-Peninsula meeting was outgoing president Frank Murai, and master of ceremonies for the evening was George Kawaye, program chairman for 1958. Installing officer was Burton Edwards, Davies Tree Service, Menlo Park, the group's adviser. The new officers are George Tanaka, Palo Alto, president; Roy Hirotsu, Menlo Park, vice-president; Eugene Omi, Redwood City, recording secretary; George Kawaye, Redwood City, corresponding secretary, and Richard Yoshida, Palo Alto, treasurer.

The California Physicians Service representative reported on the group insurance policy held by the associa-

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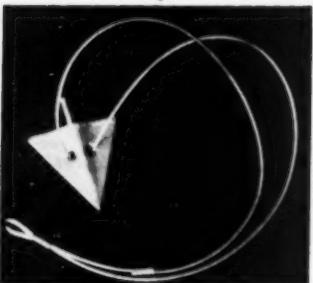
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tion and explained additional benefits that are available. A report was also given on the credit union recently established by the group. A representative from the Credit Unions gave some interesting information about the organization on a national scale and advised the membership here how to benefit further from it.

W. B. B.

#### SHADE TREE MEETING

[Continued from page 17]

indicate the use of medium or small trees, and limited space on the sides may dictate the use of pyramidal or columnar forms in preference to varieties with spreading branches. Species that grow large, he suggested, have a definite place in the planting of parks, wide streets and boulevards and on public and private grounds where there is ample room for full development. Whether the tree selected be large, medium or small is not so important as the fact that logic and reason have been used in the selection of a tree of proper ultimate size and form to fit the space provided, he emphasized.

When large numbers of a single tree species are planted in a community, serious insect and disease attacks may result, he said, and as an example cited the spread of the Dutch elm disease and the destruction it has caused. To reduce the possibility of disastrous tree losses he suggested that one tree species or variety should not constitute more than 5 to 10 per cent of the total tree population of a given community.

With respect to planting around the home, he said about 80 per cent of the new suburban homes in the United States reportedly were of the single-story, or ranch type. In the landscaping of such homes he suggested the use of small to medium-sized shade trees and the planting of flowering ornamentals such as crab apples, hawthorns, magnolias, dogwoods, redbud, birch, golden-rain tree, the cherry bark maple and the striped bark maple. Larger-growing species, he said, often are required in plantings surrounding 2-story or larger houses.

"When we can select a tree meeting the requirements of ultimate size, shape and other conditions and also combine in that selection a tree that may be beautiful in flower, leaf, fruit, fall foliage, unusual bark or a combination of these virtues," Mr. Van Camp said, "we have the satisfaction of painting a beautiful, as well as useful, picture."

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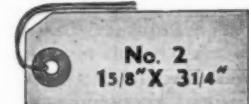
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L. B. Matzenbacher, of the Illinois department of agriculture, division of plant industry, Glen Ellyn. A brief history of the beetle in this country was given, control methods were outlined and specific areas of infestation in the midwest were mentioned.

The Japanese beetle, a native of the main islands of Japan, was found for the first time in the United States in 1916, near Riverton, N. J., Mr. Matzenbacher said. Since that time it has spread north, south and west. A small infestation was found more than 20 years ago in the Chicago area, he said, and control measures promptly applied resulted in complete eradication of the pest in this instance. Scattered local infestations have been found and brought under control at various times since in the Chicago region. Recently, a large beetle-infested area was found near East St. Louis, Ill., he said, and in the summer of 1958, beetles were found in scattered locations over a large tract in Cook county, Illinois, south of the city of Chicago. Control measures are scheduled to be applied to these infested areas this spring, Mr. Matzenbacher said, in which the United States Department of Agriculture, the Illinois state department of agriculture, division of plant industry and, in the case of the Cook county infestation, the forest preserve district will cooperate in trying to eradicate the pest.

#### Various Control Materials Used

Various materials have been used in controlling infestations of the Japanese beetle, including lead arsenate in early control measures and, more recently, such chemicals as DDT, chlordane, methoxychlor, dieldrin, toxaphene and heptachlor. These materials may be applied, Mr. Matzenbacher said, as dusts, liquid sprays or in granular form over the infested areas to destroy the larvae, or grubs, in the soil. Prior to the development of the newer, highly potent insecticides control measures were costly; now, control can be accomplished over large areas through aerial application for as little as \$3 to \$5 per acre. The so-called milky disease, which infects and destroys the Japanese beetle, provides effective control; however, Mr. Matzenbacher said, preparation of spore suspensions of this disease in quantities adequate to treat large areas was a costly procedure. In commenting on the use of Japanese beetle traps, he said the traps were used to detect the presence and extent of a beetle infestation, rather than as a means of control.

The adult Japanese beetle was de-

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scribed as being about one-half inch long; shiny, metallic green in color, with coppery-brown wings and six small tufts of white hair along each side of the body, just under the edges of the wings. The larvae are soil-inhabiting white grubs, about one inch long when fully grown. The adults feed on the foliage, flowers and fruit of a wide variety of plants, Mr. Matzenbacher said, including blackberry, raspberry, strawberry, grape, apple, cherry, peach, plum, rose, elm, linden and willow. In the Chicago area the adult beetles may be expected to appear the latter part of June, he said, and added that the adults live only about 30 to 40 days after emergence from the soil. The grubs feed on the roots of grasses and other plants and often cause severe damage to turf areas. Losses caused by Japanese beetles feeding on agricultural and ornamental plants, he said, exceed \$10 million annually in the United States.

The problem of tree stump removal was ably treated by Charles S. Walters, of the department of forestry, University of Illinois, Urbana, in his address, "Experiences in Stump Removal." Stating that he and others in the forestry department began trying 13 years ago to find a simple, practical and economical method of removing or destroying stumps, Professor Walters indicated the need for developing a workable method became increasingly urgent as more and more elms died as a result of phloem necrosis and the Dutch elm disease.

Various materials that might aid in burning stumps were tried, including potassium nitrate, chlorates, permanganates, dichromates, a perchlorate and a military incendiary material known as "goop," but none was successful. Several commercial preparations also were tried with similar results.

Then in 1953 a mixture of copper sulphate, sodium dichromate and chromic acid was utilized in an experiment and the results stimulated further work. From this work came the product known as Stumpfyre, on which the University of Illinois Foundation has applied for a patent and which is described in the University of Illinois circular No. 795, "Burning Tree Stumps with Stumpfyre." He explained that this material, used according to directions in the circular, promotes a glowing combustion of the wood and reduces the stump considerably more effectively than does ordinary burning without the assistance of the chemical.

One of the highlights of the program was a talk given by Mrs.

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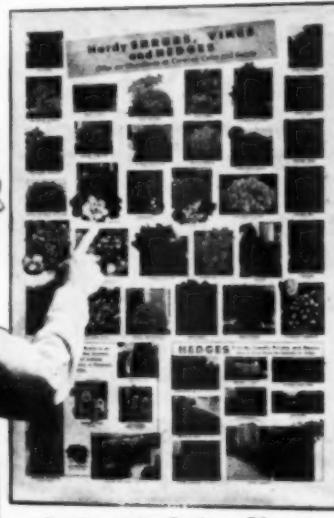
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A. Campbell Perks, Rockford, Ill., on "Homeowners' Needs for Tree Care." Remarking that, like many other homeowners, her interest in trees was mild until a few years ago; her attitude changed, however, when she saw the effects of Dutch elm disease in her community; then she became aware of the value of shade trees and realized that they needed professional, competent care.

As a result of losing some 30 elms on her own property and having some discouraging experiences with self-styled but uninformed tree experts, she said she made contacts with authoritative sources and learned all the known facts, discouraging and otherwise, concerning the control of Dutch elm disease. Through these contacts she also learned a great deal concerning the general care and maintenance of other trees and shrubs. She said she believed her experiences paralleled those of many other homeowners in the country.

A number of factors tend to prevent or discourage homeowners from using professional tree services regularly, Mrs. Perks asserted. One of these factors is a homeowner's own ignorance of the normal requirements of shade trees; he more or less takes trees for granted until an emer-

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gency such as a windstorm or disastrous disease compels attention. Cost of tree care is a second discouraging factor, Mrs. Perks said, but added that this could be overcome to a large degree if the arborist would outline the facts of tree care simply and honestly and provide the homeowner with a long-range plan for shade tree management so that such services could be included in his budget.

**Variation in Standards Misleading**

The third factor is the wide variation of standards in the practice of arboriculture, Mrs. Perks said, and added, "We must trust the man who performs our tree services. The results of his care, good or bad, often do not become evident for several years, and then it is too late to judge whether or not the arborist is competent and knows his business." Adding to the homeowner's confusion, too, are the many titles applied to men who do commercial tree work—she enumerated these as tree cutter, tree surgeon, arborist, tree expert, wood chopper and others. "Only through painful trial and error have we learned the limits of each area of service," she emphasized. She suggested that in states where arborists' licensing laws exist the fact should be publicized and the license should indicate the degree of skill possessed by the license holder.

A fourth factor that leads to confusion and lack of trust on the part of the homeowner is the frequent apparent disagreement between arborists in diagnoses of tree troubles. Minor disagreement is understandable, she commented, between scientific authorities and practitioners but suggested that an organized effort should be made to coordinate the thinking and training of professional arborists with special regard for technical problems that might arise with the homeowners' needs.

**More Knowledge Needed**

To gain greater trust and confidence among homeowners, Mrs. Perks suggested, arborists should strive constantly to better their own knowledge and that of their clients concerning the needs of trees; furthermore, they should encourage all forms of publicity on tree care matters and attempt to establish more nearly uniform standards of practice in arboriculture. She suggested taking advantage of the widespread effects of the Dutch elm disease as a pivot point in a campaign that will promote greater appreciation and interest in the care of all trees and closed with this advice: "Give homeowners straightforward advice, uni-

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formity of standards and a clear-cut understanding of licensing programs. In this way homeowners will come to view the entire profession of arboriculture with respect and with increasing desire for its knowledge, skill and experience."

#### History of N. S. T. C. Told

In his discussion of "Membership Privileges and Responsibilities," Dr. L. C. Chadwick, Ohio State University, Columbus, O., secretary-treasurer of the N. S. T. C., outlined the history of the organization and said that at present there are 1,428 members. The N. S. T. C. is unique, he said, because its membership includes representation of practically all phases of horticultural activities and because of the fact that all members are on an equal basis in the affairs of the organization since there is only one class of membership.

Dr. Chadwick outlined the objectives of the organization as being: (1) To promote and improve the practices of arboriculture; (2) to stimulate greater public interest in the planting and preservation of shade trees; (3) to promote public education and develop greater appreciation of the value of arboricultural practices; (4) to recommend and uphold a code of ethical standards to establish and maintain a high level of business practice by those in the industry; (5) to initiate scientific investigation in matters pertaining to shade trees, and (6) to hold annual meetings for the purpose of discussion and exchange of ideas on tree preservation practices and to afford manufacturers an opportunity to display and demonstrate equipment and supplies. Constant growth and success of the N. S. T. C. have resulted because the group has held steadfast to these objectives, he said.

#### Necessity of Trade Association

Trade or professional associations, Dr. Chadwick said, are common to all industries and constitute an inherent part of the American democratic system. Membership is beneficial in that the organization promotes cooperation and trust; it helps establish policies that favorably affect the industry; it provides unity and strength to achieve desired goals, and it enables members to keep abreast of new developments in the industry.

In reviewing notable past accomplishments of the N. S. T. C., he mentioned booklets that the organization has sponsored and that are presently available; these publications include "Prevention of Fruit Set on Shade and Ornamental



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Trees," "Standard City Ordinances," "Arboriculture Code," "Shade Tree Evaluation" and "Transplanting of Trees and Shrubs in the Northeastern and North Central United States." Among the responsibilities of members in the conference, he said, are attendance at the business sessions to help guide the organization in its activities and promotion of the teaching of arboriculture and horticulture in colleges and universities.

Considered in its broadest sense, Dr. Chadwick said, arboriculture includes plant selection, plant use or landscaping and planting and maintenance. Trees and plants are necessary for the survival of any community.

"The Smaller European Elm Bark Beetle—Its Spread and Control" was the subject of a talk given by Hugh E. Thompson, of the department of entomology, Kansas State College, Manhattan. This beetle, which serves as the principal carrier of the Dutch elm disease, was found for the first time in the United States near Boston, Mass., in 1909, Dr. Thompson said, but it was not until about 1930 that much attempt was made to keep accurate records of its spread. By 1938, he said, the beetle was known to exist in New York, Massachusetts, New Jersey, Connecticut, Pennsylvania and west to the Ohio-Indiana line. Since that time it has been found west of the Mississippi river and even farther west in Nevada, Utah and California. He pointed out that often the beetle carrier of the Dutch elm disease may be present in an area without the disease's itself being there.

### Beetles Spread Many Ways

The beetles spread by many means, Dr. Thompson said, including being carried by wind currents; vehicles such as automobiles, trucks and others, and through their own ability to fly considerable distances. It has been demonstrated, he stated, that beetles in search of suitable elm wood in which to deposit eggs may fly at least four miles. He pointed out that elm wood cut and piled for fuel purposes or left unburned in city dumps often becomes infected with the Dutch elm disease fungus before any standing elm trees in the area begin to exhibit symptoms of the disease.

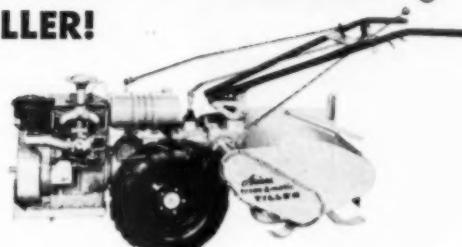
In connection with the need for controlling the bark beetles, Dr. Thompson remarked that the beetle population could build up to a point where their feeding and egg-laying activities were highly destructive to elm trees, especially those weakened by drought or other causes, even



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when the Dutch elm disease was not present.

He then reviewed the results obtained in a research program on the application of insecticides designed to control the beetles. One of the points arborists should remember in spraying, he said, is that thorough spray coverage is necessary to control the beetles. In his work he found that the lower branches of a tree usually received more spray material and that the spray on the lower branches remained toxic to the beetles for a longer period of time than on the upper branches. To control the beetles and to prevent excessive spread of the Dutch elm disease, Dr. Thompson advised a program consisting of both sanitation and spraying.

### Dutch Elm Disease Symposium

One of the features on the program of the meeting was a symposium on Dutch elm disease. Discussion leaders were George E. Hafstad, plant pathologist of the Wisconsin state department of agriculture, division of plant industry, Madison; Donald L. Schuder, of the department of entomology, Purdue University, Lafayette, Ind.; James A. Hoyt, Hoyt Tree Service, Northbrook, Ill.; Marvin E. DeSmidt, De



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Stating that Dutch elm disease was found at Beloit, Wis., in 1956, Mr. Hafstad described the spread of the disease in Wisconsin and the methods used in control work. In 1958, he said, 1,832 cases of the disease were reported from 106 communities in seven counties of the state. The control organization in Wisconsin, he said, includes representatives from the University of Wisconsin, Madison; the state highway department, the League of Wisconsin Municipalities, the conservation department, the department of forestry and wildlife management, county agents and some private individuals. Good publicity has been given the situation, he said, and commented that cooperation in control efforts throughout the areas of infection has been excellent.

Control measures are similar to those practiced in other areas where the disease is present, he remarked, and through proclamation of the governor the last week of March has been designated as Dutch elm disease cleanup week. Such publicity as this, he commented, encourages the public to take the necessary steps toward control of the disease. He remarked that in Wisconsin the peak of the beetle emergence seems to occur about mid-June, with a smaller peak about mid-August.

**Disease Research Work**

Dr. Schuder commented on various experimental and research work conducted in control of the Dutch elm disease and stated, "At the present time there is no known cure for Dutch elm disease; we can only prevent its spread." In order to transmit the disease, he said, the beetle must penetrate the bark of the twigs to a depth of two or more millimeters. The fungus cannot be transmitted in feeding cuts that do not penetrate the cambium. He said the greatest amount of disease transmission occurs in the spring when the large conductive vessels of elm trees are closest to the twig surface, and fall inoculations by the beetle are seldom successful since at that time of year the conductive vessels of the trees are shorter and partially closed.

Continued use of DDT may pose some secondary tree problems, he said, such as a build-up in population of mites, scale and aphids. He suggested the addition of other in-

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secticides or miticides to the DDT spray to control these pests. Some experimentation to control the beetles has been made with systemic insecticides, Dr. Schuder said, including demeton, Dimefox, Thimet and Tetram, of which some show considerable promise. Insecticidal materials that appear to compare favorably with DDT in control of the beetle, he concluded, include lindane, lindane plus aroclor 5460 and dieldrin.

#### CANADIAN CONVENTION

[Continued from page 14]

They like to see seeds grow fast. Instead of 10 per cent red top and 10 per cent Highland Bent, 20 per cent Highland Bent is sometimes used.

In summing up, he said the production of vegetable, flower and lawn grass seeds is a highly specialized business. Seedsmen are mostly responsible for the final distribution to users and they cannot know too much about this important trade. Users should also acquaint themselves with all the facts they can learn concerning the seeds that they transform into consumer goods.

Because R. W. Oliver was unable to be present at the convention, the talk on the new Canada department of agriculture as scheduled on the program was not given, and a film on the Japanese beetle was substituted.

Morning sessions concluded with a talk by Jack Hill, D. Hill Nursery Co., Dundee, Ill., on "Container-grown Nursery Stock." In this day, when the trend is to demand specific goods for specific markets at specific dates, one has the advantage of controlling many factors when he grows stock in containers. Mr. Hill has found new tin cans the most economical and satisfactory container in the long run.

With regard to the mixture in the can, he pointed out that it is almost impossible to standardize anything that contains soil and suggested a mixture of sand, peat moss and sunflower hulls. He noted also that perlite has possibilities. A base fertilizer must be added, with a nutrient balance at low level.

He went on to discuss the importance of timing in planting rooted cuttings, the use of Jiffy Pots to reduce shock, the shift from rooting bench to container, field liners, irrigation and liquid fertilizing and feeding. He said that in the past his nursery fed intermittently, but during the coming year continuous applications of liquid fertilizer will be used at a concentration of about 1/30.

He suggested light and frequent

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#### PRATT'S SPRAY FOR EVERGREENS

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	Retail	Packed	Dealer
8-ounce bottle	\$1.50	12 to case	\$10.80
1-pint bottle	2.50	6 to case	9.00
1-quart bottle	4.50	6 to case	16.20

#### PRATT'S LIQUID ROSE SPRAY

A one-package insecticide-fungicide concentrate that will not clog a nozzle. Controls all common garden insects, Black Spot and powdery mildew on roses, Leaf Spot on mums, rust on snapdragons and many other diseases. Dilutes 1 to 200 for insects, 1 to 100 for fungus.



	Retail	Packed	Dealer
8-ounce bottle	\$1.50	12 to case	\$10.80
1-pint bottle	2.50	6 to case	9.00
1-quart bottle	4.50	6 to case	16.20

#### PRATT'S 72% CHLORDANE

This versatile insecticide concentrate gives customers an easy do-it-yourself way to control termites. Many uses for household and garden pests, especially ants. Contains 8 lbs. Chlordane per gallon.



	Retail	Packed	Dealer
4-ounce bottle	\$1.25	12 to case	\$ 9.00
½-pint bottle	2.00	12 to case	14.40
1-pint bottle	3.59	6 to case	12.92
1-quart bottle	5.65	6 to case	20.34

#### PRATT'S NEMAGON

An emulsifiable concentrate of Nemagon soil fumigant which controls nematodes in established turf and on roots of many vegetables, melons, flowers, fruits, shrubs and trees. Safe for pre-plant or post-plant treatment.



	Retail	Packed	Dealer
1-pint bottle	\$4.00	6 to case	\$14.40
1-quart bottle	7.00	6 to case	25.20

B. G. Pratt Co., 189 Twenty-First Avenue, Paterson, N. J.

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ROOTED CUTTINGS —  
FASTER  
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INTERMITTENT SYSTEMS  
FOR ALL CROPS



Complete Clock Timer and full 3/8-inch solenoid  
wires, ready to hang up.

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No need to own or use plows, disks, blades, drags or harrows to complete the job. One man does it all quickly, efficiently and perfectly... and at tremendous savings in cost for labor and equipment.

The Roseman Tiller-Rake gives excellent results in reconditioning cinder running tracks, ball diamonds and recreational areas. Also used in nursery, plant growing and soil fumigation work.

Models to fit most tractors. Specify make and model of tractor.

Write for descriptive literature, price and availability today on this money-saving tool.

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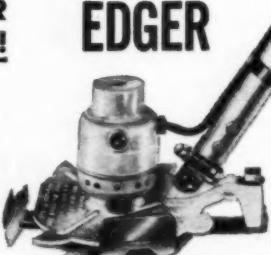
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- **TRIMS** . . . all the grass away from fences, walks, trees, rocks.
- **EDGES** . . . cuts a neat, trim groove between walk and sod.
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trimming and went on to discuss winterizing plants by moving them closer together and erecting a snow fence around them in blocks about 100 feet long and 20 feet wide. Snow fence paper is put over the more tender plants.

A general session in the afternoon was chaired by the 1958 president, W. B. Wellington. "Selling on Credit" was the subject of a talk by J. W. Beaton, Interprovincial Building Credits, Ltd., Toronto, Ont., who pointed out the advantages of selling nursery stock products on the installment plan through a dealer credit organization. The field of installment buying is constantly broadening and has a considerable influence in the rehabilitation, modernization and improvement of homes.

### Installment Buying Benefits

In the case of the nursery industry, Mr. Beaton stated that the use of an organized, experienced finance plan could be made of greatest benefit in more than one way. It could be the means of closing a deal on a sound basis of deferred payments, which otherwise might be postponed or even lost altogether. Again, whereas a purchaser might be willing to take on a certain job of a certain size on a cash basis, he may purchase a higher quality of merchandise for the job that he wants done, if he is offered such merchandise on an installment basis. Used on a sound basis, installment buying can be made a business builder and profit maker.

Mr. Beaton pointed out the benefits of using a financial credit house to handle installment sales. By using a credit house, the dealer receives cash for the sale, the same as he does on an ordinary over-the-counter cash transaction. In addition, the credit of the purchaser is checked by the credit house. The dealer has all the advantages of offering a deferred payment plan without any of the work involved.

Gordon F. Henderson, Q.C., Gowling McTavish, Osborne & Henderson, Ottawa, Ont., in discussing "Misleading Advertising," stated that a liberal law toward advertisements and an apathetic public permit a sizable loss to purchasers from false and misleading advertising each year. He predicted that, unless industry engaged in self-discipline in advertising, closer government control would follow.

### Suggests Nursery Standards

He suggested that the Canadian Association of Nurserymen adopt a voluntary code outlawing the following practices: Misdescribing one's

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# THE AMAZING **PUSH-TRAC** The PROFESSIONAL CLASS

"MOWER • DUMP CART • BULLDOZER • SNOW AUGER"

The Push-Trac is a rugged 2-wheeled tractor made of heavy plate steel, welded into a rugged piece of light industrial equipment. Model B has heavy-duty, 4-horsepower, cast iron block industrial engine. A marine type, reversing-clutch transmission running in oil, and spur gear differential built for in excess of 10-horsepower. One forward-neutral-reverse lever. Working speeds from 1 to 6 m.p.h.



A single pin couples any of its attachments in just 30 seconds. Dozens of landscape, materials handling and maintenance uses. Driver steers unit exactly where he wants to go, with the work in FRONT of him at all times. The unit with attachments will turn in its own length.

Attachments include 5' and 4' wide gang reel mowers, 52" rotary mower, 48" hammer whip mower, 30" reel mower, bulldozer, snow auger, 1,000 lbs. capacity dump cart—and many more to come!

Tremendous acceptance—the versatility of many machines with the economy of one!

Dealerships now available.  
Drop us a line for complete,  
illustrated details.



Now being manufactured and sold by  
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TOPEKA, KANSAS

product or falsely illustrating it; using a competitor's symbols or advertising format; using genetic plant designations as one's own; shipping contrary to advertised representation; representing as nursery stock products collected in the wild state; representing a product as a new variety unless it is one; representing growth conditions such as absence of fertilizer requirements unless accurate; representing that plants were propagated by grafting or bud selection methods unless such was the case; misrepresenting the nature of the bloom to be expected, and misrepresenting by false indications of price reductions.

As a positive proposal, Mr. Henderson suggested that the association adopt a standardization mark that may only be used by members of the association who have met prescribed voluntary standards. Make each member proud to advertise under the symbol, said Mr. Henderson, and make the symbol a trademark of confidence.

#### Plant Patents—Pro and Con

In discussing the question "Plant Patents for Canada?", J. H. Eddie, H. M. Eddie & Sons, Ltd., Vancouver, B. C., maintained that they would protect the hybridizer, be an



## SKIBBE INSECTICIDE-HERBICIDE & FERTILIZER APPLICATOR

*The spreader with the controllable spread.*

Modified, approved and used by the plant pest control branch of a national agency for application of granular insecticides. Used by leading universities and growers.

*Write for folder.*

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## THE MODERN MATERIAL

Aluminum, designed for scientific sun control.

Millions of feet in use throughout the United States and the many repeat orders received for increased coverage in the past 10 years prove its value.



### NURSERY

Designed for ease and low-cost erection. It is lightweight, with a high-gloss baked enamel finish, long lasting, with minimum maintenance.

Extensively used by commercial growers, nurseries and landscape architects, for better plant protection.

Manufactured in four lath spacings, one will meet your most exacting uniform sun intensity requirements.



### LATH HOUSE

Ideal shading medium for patios, carports, parking lots, commercial displays and any area requiring shade.

Perfect shade, ventilation, diffused reflected light with minimum light loss and beautiful appearance are assured with ALUMALATH.

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added incentive to the development of new varieties, prevent monopolies and benefit the nurseryman and public.

L. Hancock, Woodland Nurseries, Cooksville, Ont., regarded plant patent legislation as government protection for monopoly production and price fixing, contrary to recognized Canadian economic principle. He was of the opinion that plant patents would create a false sense of values and would deprive all nurserymen of part of their growing freedom.

John Lemon, the Conard-Pyle Co., West Grove, Pa., gave an unbiased account of how the United States plant patent act works. There was great interest in the subject and it seemed that many were uncertain as to what the plant patent law meant and what it would and would not do. The questions and answers were informative and profitable, and discussion had to be stopped at the dinner hour.

Tuesday morning was a garden center session, with "Ted" Shuttleworth, Little Tree Farm, London, Ont., presiding, and A. W. Rundle, A. W. Rundle Garden Center, Oshawa, Ont., acting as moderator. The new A. A. N. film, "Basic Technique for Home Landscaping," was shown, and members were told that the association was making it available to them.

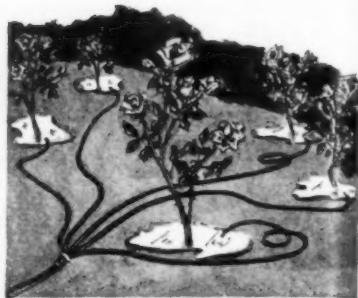
John Siebenthaler, the Siebenthaler Co., Dayton, O., gave an informative talk on "Sales Station Operation." He considers the garden center as the best outlet for the retail nurseryman, but claimed that the biggest mistake in the past had been that operators were not optimistic enough about the future.

The trend in home grounds is toward providing an attractive setting for leisure outdoor activities. He pointed out the public awareness of progressive merchandising and the advance of the merchandiser who appeals to the public with ease in shopping, effective displays, parking and a variety of merchandise.

### Allied Lines Necessary

Allied lines, he stated, have become a necessity. In his opinion, a nurseryman can no longer operate by just selling plants. He must sell service and allied products. In commenting upon the allied lines, Mr. Siebenthaler suggested that nurserymen offer a variety of merchandise and that the new operator use brand names that have a reputation. The person who has been in business long enough to build up a reputation can add his own brand names.

Mr. Siebenthaler then mentioned



### 5 - FROM - I PLANT SOAKER

SOAKEZE does a good job when watering shrubs; saves much time and work. Its 5 lines of durable, green vinyl tubing (three 10 ft. and two 15 ft.) can be spread out in any direction to soak roots of 5 shrubs at one time. Has standard garden hose connection. 5-year guarantee.

A proved product, thousands now in use. Each SOAKEZE mounted on easel for easy handling and display. Retails for \$5.95.

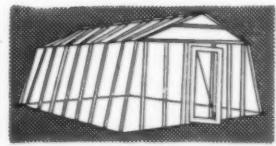
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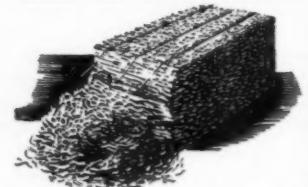
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STEEL FRAME, 1x2-in. angle, 6-mil plastic cover, 2 vents, 1 door, hardware, etc. Write for details:

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## Wood Feathers

SCREENED  
BALED RED CEDAR SHAVINGS



**The Perfect Nursery Packing**

Manufactured by

**MONARCH SHINGLE CO.**

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how his firm uses and advertises its own brand of grass seed. They use a small red and white package for grass seed, since red is considered a better advertising color than green and since a number of small packages all bearing the firm name provide better advertising value than one big package.

In concluding his talk, he advised that the garden center should offer quality products and always try to improve production. It should give true value; make products readily available, and advertise truthfully, in good taste and consistently to the right people. He also mentioned that there were not enough sales aids available from the producers of allied items nor from the nursery wholesaler.

Jack Hill discussed the psychological aspect of merchandising nursery stock. People generally have a fundamental urge to own their own home, and associated with this idea is the possession of land and growing plants. This basic desire provides a decided market for nurserymen.

#### Supermarket Sales

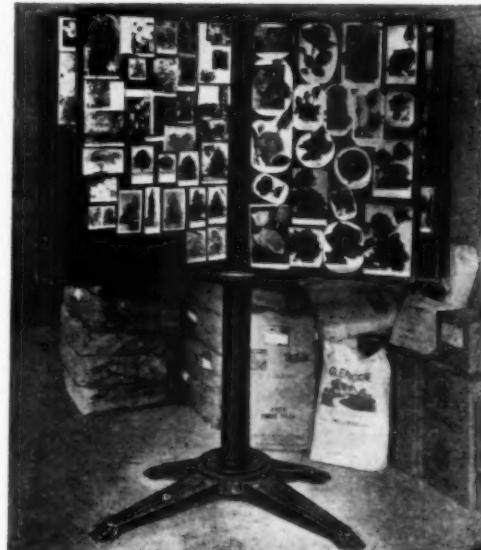
In the course of his talk, Mr. Hill discussed sales stations and supermarkets, stating that the latter depend greatly on impulse buying. In this type of sale, novelty rather than staple plants move best. The nursery and sales station sell the more staple plants. He has found that in the case of supermarkets, success with nursery stock depends largely on the attitude of the manager. He concluded his talk with an amusing story that illustrated a number of the weak points in nursery selling. A question and answer period concluded the morning session.

In the afternoon there was a landscape session. "Ted" Shuttleworth acted again as chairman. Les Solty, Leslie L. Solty & Sons, Ltd., was moderator. The session opened with the new film, "Home Landscaping," which gave some excellent pointers on home planting.

J. Austin Floyd, lecturer, school of architecture, University of Toronto, Toronto, Ont., was introduced and gave a talk on "Construction Methods in Landscape Contracting." He asserted that all gardens should have a perceptible form, not a haphazard collections of rocks and flowers.

He maintained that the landscape architect has a broader vision of outdoor living than the nurseryman, who is interested mainly in selling plant material. The customer, said Mr. Floyd, needs not only plant material but also guidance in planning outdoor living areas. When one is

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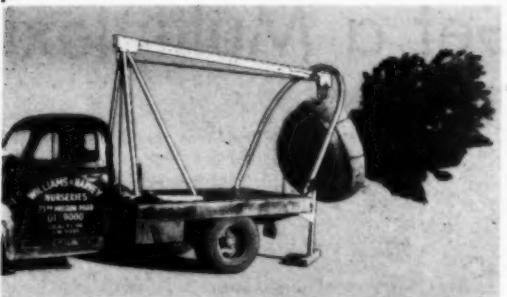
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**PATIO PLANTER**  
"LASTS A LIFETIME"

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All Red Giant products manufactured only from clear heart, premium Redwood.  
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Send for free catalog and price list showing entire line of RED GIANT QUALITY PRODUCTS.

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Leading nurseries, tree surgeons and park departments in all parts of the U.S. are using this new, improved mover. See it! Write us for addresses of users near you.

- New Lighter Weight
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Specifications, details and pictures free. Drop us a card.

Six-foot mover (as pictured) complete with power winch and all needed pickup parts, \$1,675.00 F.O.B. Kansas City, Mo.



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The plants and products written about and advertised in FLOWER GROWER THE HOME GARDEN MAGAZINE over the last 45 years have helped make the nursery and garden industry a great part of American living.

### TRADE MARKER MAGNETIC CAR SIGNS

Neither brackets nor bolts are needed to keep these new identification signs affixed to your car or station wagon. When the car is used for nonbusiness purposes, the sign, held on by magnets, can be lifted off.

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Wilson, N. C.



planning such an area for a customer, there is often a limited budget to consider as well as the horticultural tastes of the customer.

Construction work is necessary in landscaping, and Mr. Floyd suggested that a nurseryman who is not equipped for such work should make arrangements with a contractor. He also pointed out that an agreement with the customer in regard to construction work should not be ignored. The agreement should be in writing and need not be elaborate, but it should be a simple statement of the work to be done for a certain sum.

### Soil Preparation and Paving

He discussed soil preparation and soil requirements for a good lawn and for nursery stock. The latter requires one cubic yard of topsoil, two feet deep. Subsoil and drainage should also be examined. In contemporary landscape development, paving is widely used, and Mr. Floyd discussed the various types.

Crushed rock serves as a drainage base and is most economical. Stone mulch and pebbles prevent erosion but also make future cultivation difficult. Asphalt is second most economical. Concrete is more permanent and does not require so much maintenance. Stone, cut flagstone, clay brick, concrete brick and wood paving were mentioned, and ways of laying them were discussed.

Macklin Hancock, Project Planning Associates, Toronto, told of the St. Lawrence seaway project development program. Plans are going ahead to develop and make into parks and recreational facilities some of the lands purchased by the government since the beginning of the seaway project.

From the nurseryman's and landscape man's point of view, the development of Chrysler park will be of most interest, for many of the other parks will be left in a natural wild state. Mr. Hancock outlined some of the plans for Chrysler park and other projects, stating that contracts for the work in developing historical sites and tourist attractions were given out to various nursery and landscape firms. At the conclusion of the session it was announced that an Ontario Landscape and Contractors Association had been formed, with 16 members.

### Special Events

There was interest in the 18 trade fair exhibits throughout the convention, and social activity was not overlooked. On the first evening, the recreational facilities of the hotel were put to full use, and swimming,

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# 3 TIMES AS MANY POTENTIAL PLANT BUYERS FOR MAIL-ORDER NURSERIES

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*Organic Gardening and Farming* magazine now reaches more than 250,000 home-gardening families every month. In three short years, our circulation has tripled. We bring you more mail-order customers than ever before!

Satisfied advertisers tell us that results far exceed their expectations. In 1959's first four months, advertising volume is 18% ahead of 1958, and 124% ahead of 1957 and 220% ahead of 1956! What's more 52 new advertisers ran ads in 1959 so far.

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**ORGANIC**  
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EMMAUS 9, PENNSYLVANIA

bowling and dancing were enjoyed. The annual banquet preceded by the president's reception was held Tuesday evening and was an informal affair. W. B. Wellington was chairman. There were no speeches and, after the evening meal, there was dancing.

The ladies' program included a luncheon Monday noon in the hotel, after which a film by the Canadian Wine Institute was shown. In the afternoon there were bowling and swimming. The second morning an informal coffee party was held, and at noon all the ladies embarked for Niagara Falls, N. Y., for luncheon at the Treadway Inn. In the evenings they enjoyed the general social program.

OPENED recently at Ashland, Ore., was a nursery operated by John E. and Donald T. Wilkinson. The business is located on a 2-acre tract formerly occupied by the Lithia Nursery.

PAUL SIMMONS is the owner of the Lincoln Nursery & Garden Supply, a retail nursery started recently at Lincoln, Calif.

RECENTLY opened at Bakersfield, Calif., was a branch of Canaday Nursery Co., Taft.

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Also sold in quarts and gallons  
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**BOLENS PRODUCTS DIVISION**  
Food Machinery & Chemical Corporation  
Port Washington 73, Wisconsin

## Western Pennsylvania Meeting

By Frank Curto

Forty-seven members and guests were in attendance when Chairman John M. Eisler, Eisler Nurseries, Butler, called to order the 13th meeting of the Western Region of the Pennsylvania Nurserymen's Association on March 5, at the Park Schenley restaurant, Pittsburgh.

After the minutes of the previous meeting had been read, Max Sestili, Pittsburgh, chairman of the telephone listing committee, displayed an advertisement to be printed in the yellow pages of the directory to give more emphasis to members listed under the P. N. A.—Western Region heading.

W. A. Morten, Jr., Coraopolis, reporting for the cooperative purchasing committee, stated that the association had purchased 68½ tons of fertilizer during 1958 under the new 6-10-4 plant name from the Kapco Co.

Frank Curto, Phipps Conservatory, Schenley park, Pittsburgh, secretary-treasurer of the group, talked on the "City of Flowers" campaign being sponsored by the committee for the 200th anniversary celebration of Pittsburgh. He explained the efforts that will be made to encourage planting of home properties this year and urged the membership to back this project.

Dominic Palumbo, South Hills Nursery, Pittsburgh, program chairman, introduced Tom Grealish, an insurance consultant. Mr. Grealish pointed out how savings could be made through careful consultation with an insurance agent, emphasizing more thorough methods of classification of employees and the need for adequate liability coverage.

William C. Trainor, a certified public accountant and tax consultant, next spoke on tax savings. He pointed out the tax advantages and disadvantages of corporate and single partnerships and stressed the importance of the system of reporting and accounting.

After dinner, Chairman Eisler introduced Eugene McFarland, of the General Electric Co., who gave a talk and demonstration on the use of garden lighting.

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## CHICAGO SHOW

[Continued from page 8]

cuses, scillas and yellow tulips beneath garden lights. Between the background border and the lawn that filled the foreground were plantings of ivy, tulips and hyacinths. Flowers also edged the entrance walk. A stone retainer wall shielded the lawn and border effects, and a redwood bench suggested relaxing in the pleasant scene. Materials selected were for color variety and interest in both winter and summer.

## Educational Displays

The state nurserymen's group won more gold medals with displays that flanked the southern hillside in the arena. Both entries were backed by tall painted murals, each over 90 feet long, showing express highways traversing a countryside.

At one side the mural gave the highway scene before any roadside landscaping was executed. In front of it, however, the nurserymen and the Cook county forest preserve district reproduced a natural resting spot for the traveler, with picnic facilities and an array of shrubs and trees all tolerant of the climate of northern Illinois, all relatively easy of maintenance and all able to withstand the exposure of the unprotected countryside. The shrubs included crab apple, hawthorn, gray dogwood, Alpine currant, dwarf ninebark, sumac and viburnum. Wildflowers for underplanting included bluebells, violets, May apples, periwinkles and ferns.

On the other side, beneath the mural depicting a well-landscaped interchange, was a typical modern nursery layout, on a small scale. Designed for the nurserymen by the Chicago chapter of the American Society of Landscape Architects, this display held particular interest for those who had just bought or were contemplating buying nursery stock. Steps in growing plants, from seedling stage to selling time, were depicted, illustrating the effort involved in producing quality plants.

At one end a lath house covered a work area showing plants started from seeds, cuttings and grafts; B&B plants, and container-grown plants. Next came an interesting display of a wide range of desirable plants—Japanese yew, blue spruce, pine, juniper, magnolia, maple, euonymus and others—each in a variety of sizes and all heeled in, in soil. Blue spruce, for example, was shown at 1, 7, 10 and 18-year periods, and euonymus at 4, 7 and 12-year periods. Each variety was in a separate row, with the smallest specimen in front and the largest at the rear, so

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18" x 18"—@	38.50 per M	30" x 30"—@	84.00 per M
20" x 20"—@	42.00 per M	32" x 32"—@	94.50 per M
22" x 22"—@	49.00 per M	36" x 36"—@	108.50 per M
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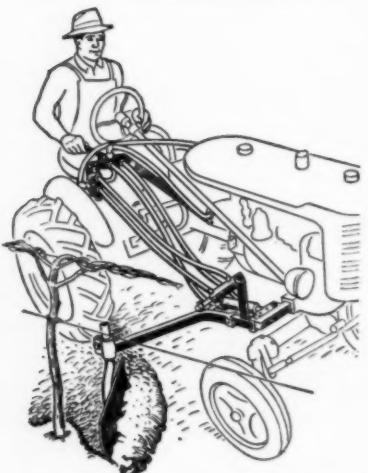
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Levittown, N. Y.

comparison could be made and time  
of development to maturity appre-  
ciated. To the left of this arrange-  
ment was a field house with an ivy  
foreground and a flanking terrace  
with an attractive planting. The  
Bulkley medal of the Garden Club  
of America was awarded to this  
exhibit for its educational value.

### Modern Landscape

Adjoining the nurserymen's indus-  
trial site planting, but facing the cen-  
ter of the arena, Vaughan's Seed Co.,  
Chicago, carried out a modern  
tulip garden planned by William  
E. Rose & Associates. Flowers were  
used to spread color in broad masses.  
Across the back of a triangular space  
an uneven grassy slope fronted an  
ornate tile wall, with a large bed of  
yellow and white pansies centering  
the area. Then, after a flag-  
stone walk, the terrain stretched with  
irregular elevations that permitted  
placing small bedding plants closer  
to eye level along one side and an  
expansive for massed tulips, mainly  
new varieties, at the other side. A  
totem pole topped one mound, and a  
Hopa crab apple in bloom also gave  
height. Baltic ivy and shamrock  
plants formed edgings at various  
points. A gold medal went to this  
feature in the center displays.

Three plantings made up the unit  
encircled by the second half of the  
figure-8 path. Directly opposite the  
Vaughan display was a June rose  
garden, in similar triangular shape,  
staged by the Jackson & Perkins Co.,  
Newark, N. Y., and winner of a gold  
medal. More than 700 hybrid tea  
and floribunda roses formed beds  
and borders. Across most of the back,  
salmon and red roses were placed on  
a terrace planting. At the left, how-  
ever, near an aisle, a round bed of  
rose miniatures in concentric rings  
of color—yellow, pink and red—  
showed in a grassy area and attracted  
much interest.

Forming a V shape, with grass in  
the center, two massed plantings—  
Garnette on one side and Summer  
Snow on the other—came to a point  
near the front of the space. Solid  
beds of roses also edged the entire  
planting back of a retaining wall.  
Pink Garnette occupied much of the  
side sections, with Ivory Fashion and  
Kordes Perfecta near the point. Tree  
roses in full bloom were set at in-  
tervals in the inner planting, and  
birch trees in leaf were used for  
accents through the display, designed  
by Armand R. Tibbits, landscape  
architect, Greenwich, Conn.

### Garden Living

Backing the rose planting and fac-  
ing the hillside planting of azaleas,

# Cyclone

SPREADER FOR USE IN NURSERIES  
OR SALE TO CUSTOMERS

This great new Cyclone distributes a 6 to 8-ft. swath of granular plant food evenly and quickly—5 to 10 times faster than ordinary lawn spreaders. The fan-like distribution pattern has a feathered edge which stops streaking, eliminates the problem of remembering exactly where you have gone. The throwing action of the Cyclone spreads plant food under shrubbery, in close to fences and markers and over high and low spots. High wheel design moves easily over uneven ground. The Cyclone is easy to use, easy to regulate, easy to clean. Available from lawn and garden stores, distributors, or contact us direct.

Also world's leading manufacturers of hand seeders.



THE CYCLONE SEEDER CO., INC.

Urbana 65, Ind.

the Chalet Nursery & Garden Shop, Wilmette, Ill., filled a 2,000 square foot area with a scene to emphasize the enjoyment of garden living. A large stone patio, on which a recumbent figure dozed, was bordered by stone planters and a clipped yew hedge at the wide back end. A rocky knoll at the left of a grassy area had a naturalistic planting of evergreens, azaleas, birch trees and pachysandra. On the other side there was a terrace in an Alpine setting of boulders and logs. In another grouping, evergreens had interplantings of spring-flowering bulbs and a border of summer annuals. A picket fence enclosed part of the space, and bluegrass flowed down the center of the display. Chet Durant, of the Chalet organization, planned the scene, recipient of a bronze medal.

Planting of a pool edge in the third unit of this group of displays received a bronze medal. White petunias in a grass border formed a clump at one end of the pool and geraniums and lights flanked the steps that led to the brim of the pool. Jensen Swimming Pools, Barrington, entered this display, which was landscaped by Harold Klopp. A redwood windbreak was used to afford privacy.

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<b>.002</b>	<b>\$ 6.05</b>	<b>\$ 6.60</b>	<b>\$ 6.49</b>	<b>\$ 6.33</b>
60" x 200"	11.33	10.58	10.20	9.90
100" x 200"	16.32	15.24	14.69	14.36
<b>.004</b>				
3' x 100'	4.86	4.90	4.18	4.04
4' x 100'	5.75	5.40	5.21	5.06
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8' x 100'	10.02	10.80	9.83	9.64
10' x 100'	13.42	12.51	12.06	11.71
20' x 100'	26.07	24.26	23.36	22.68
<b>.006</b>				
6' x 100'	11.85	11.04	10.63	10.32

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<b>.0015—Black Mulch—Polyethylene</b>				
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Arlington Heights, Ill., utilized 90 feet of the north side of the arena to present a June garden for outdoor living and color. Harold Klopp, who designed the setting, showed

how home and garden can be unified, new materials employed and colors repeated.

The facade of a house with a full-size porch occupied the back corner at the right. Attractive furnish-

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ing on the porch included a table, set for dining, on a level just above a pool, a grill and a planting that flanked broad steps leading from the porch to the terrace that had a low wall and clumps of petunias and ivy to mark the entrance to the patio. In the space extending to the left, perennials and annuals in bloom formed a curving back border for a lawn, while at the extreme left, the garden ended with another flower-surrounded pool in an evergreen setting. An unusual backing was employed to restrict the view beyond this planting. This display merited a silver medal for the Klehm nursery.

#### Other Features

Four plantings staged by North Shore garden clubs in the north exhibit hall adjoining the main arena showed much merit in both ideas and execution. In the south hall, several information booths, with exhibits, were staffed by members of men's garden clubs who offered gardening information to show visitors.

Varied fields of information were tapped to obtain educational displays that would contribute to the horticultural experience of the show attendants. The three sectional rose societies in the Chicago region, all affiliated with the American Rose Society, set up a display, and members offered advice about their favorite flower. Similar effort was made by the Illinois Orchid Society and an African violet growers' group.

The Morton Arboretum, Lisle, Ill., had a comprehensive display depicting the horticultural opportunities offered at the arboretum, showed results of some of the activities there and exhibited photographs and charts that are used in teaching programs.

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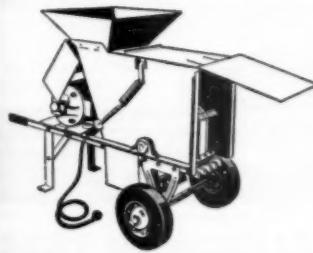
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KEMP Model 6-0 soil and compost shredder is widely accepted as an aid in shredding old discarded stalks, vines and plants for the compost pile. The KEMP 6-0 shreds soil perfectly for both bench and potting in addition to accelerating the decomposition of materials for composting.

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stitute, Washington, D. C., were two exhibits, each 150 feet long. "Plant Portraits" was a display of medicinal plants and herbs, all of which can be grown in this country. "This Is the American Earth" depicted various aspects of conservation and national resources and included drawings and color diagrams, in addition to early photographs of the 19th century.

The Argonne National Laboratory, Lemont, Ill., and the botany department of the University of Chicago prepared a display to indicate the new uses of atomic energy in plant growth studies. A section of this exhibit also depicted the effects of gibberellic acid on plants.

#### World Contacts Marked

The big midwest flower exhibition was featured as the Chicago World Flower Show because it was planned as one of the events to mark the year in which Chicago will become a world port, along with other major cities situated on the Great Lakes, accessible to ships from all parts of the world by way of the St. Lawrence seaway. Many features in the show were planned to accent the international flavor. A large rotating globe in the main arena showed native sources for many familiar plants. Oriental influences were used in several feature plantings and smaller displays. Flower arrangement classes were devoted to aspects of foreign culture. The Lithuanian Agricultural Association staged a wayside garden to receive the president's award, a silver medal.

The Chicago Horticultural Society, organized in 1890, promoted some of the earliest flower shows in the city, and its membership, widespread in the Chicago area, includes many commercial and professional horticulturists. Net proceeds of the recent show will benefit the society's charitable gardening projects for handicapped school children, aged citizens and the blind. The society's efforts toward cultural improvement in the area were recognized by the participation of many commercial and noncommercial civic-minded organizations and individuals.

OPERATIONS of the Evergreen Nursery, Richland, Wash., have been expanded by A. L. and Ethel Reil.

GRAND opening was held recently of Frontier Nursery, Henderson, Nev. The firm is owned by William and Vera Mainor.

RECENTLY started was a retail and wholesale nursery by Henry J. Krell, Troy, Mich.

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### SET YULE TREE EXHIBITS

The Michigan Christmas Tree Grower's Association and the state department of agriculture are working together to establish rules for competition among growers at county fairs this year.

According to Paul Armintrout, Armintrout's Evergreen Nursery, Allegan, 1958 association president, this will be the first time that the state will share in paying premium money for top-ranking Christmas tree exhibits at county fairs. He said the association hopes to see yule trees listed in premium books of every fair in the state in counties where the trees are grown commercially.

Mr. Armintrout and Paul Krause, Detroit, 1957 association president, met in January with the Michigan Association of Fairs and Exhibitors at Detroit to explain the program. County fair officials were enthusiastic in their response to the association's proposal for competition among tree growers. The agricultural department announced that it would contribute 40 per cent of the prize money offered by the fairs.

Christmas trees already are included in the Allegan county fair's premium book for 1959, and the Michigan Christmas Tree Growers' Association recently accepted a bid from the Michigan state fair to set up an exhibit at the annual exposition in Detroit next fall.

### PROMOTE SEVENTEEN ROSE

A coral pink floribunda rose, named the Seventeen Rose in honor of Seventeen magazine, was introduced by the Jackson & Perkins Co., Newark, N. Y., at the flower show held March 7 at the Coliseum, New York, N. Y. Resulting from seven years of hybridization to achieve a variety suitable in size, color and appearance for a young girl, the short-stemmed, small-size bloom will be available to florists this year as a cut flower. By 1960, according to Jackson & Perkins, Seventeen Rose plants will have been developed in ample quantity for home gardeners.

To commemorate this hybridization, the entire May issue of Seventeen will be devoted to the Seventeen Rose and its uses as a gift flower, a fashion accessory and a decorative item for centerpieces and displays. In conjunction with the special issue, 100 stores throughout the country will participate in Seventeen Rose promotions, featuring fashions and products from the May issue and using Seventeen Roses as decorations.



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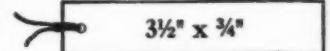
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